# **Table of Product List**

Webpage Publication Date	Product Name	Model Name	Country
2024.08	Galaxy Z Fold6	SM-F956B	EU
2024.08	Galaxy Z Fold6	SM-F956U	US
2024.08	Galaxy Z Flip6	SM-F741B	EU
2024.08	Galaxy Z Flip6	SM-F741U	US
2024.06	Galaxy A35 5G	SM-A356B	EU
2024.06	Galaxy A55 5G	SM-A556B	EU
2024.04	Galaxy M15 5G	SM-M156B	TK
2024.02	Galaxy XCover7	SM-G556B	EU
2024.02	Galaxy S24 Ultra	SM-S928B	EU
2024.02	Galaxy S24 Ultra	SM-S928U	US
2024.02	Galaxy S24+	SM-S926B	EU
2024.02	Galaxy S24+	SM-S926U	US
2024.02	Galaxy S24	SM-S921B	EU
2024.02	Galaxy S24	SM-S921U	US
2024.02	Galaxy A25 5G	SM-A256B	EU
2024.02	Galaxy A25 5G	SM-A256U	US
2024.02	Galaxy A15	SM-A155E	SEA
2024.02	Galaxy A15 5G	SM-A156U	US
2024.02	Galaxy A15 5G	SM-A156E	SEA

# **Table of Product List**

Product Name	Model Name	Country
Galaxy Z Flip6	SM-F7410	CN
Galaxy Z Fold6	SM-F956B	EU
Galaxy Z Fold6	SM-F956U	US
Galaxy Z Flip6	SM-F741B	EU
Galaxy Z Flip6	SM-F741U	US
Galaxy M35 5G	SM-M356B	SWA

Product Name	Model Name	Country
Galaxy A35 5G	SM-A356B	EU
Galaxy A55 5G	SM-A556B	EU
Galaxy M15 5G	SM-M156B	TK
Galaxy XCover7	SM-G556B	EU
Galaxy S24 Ultra	SM-S928B	EU
Galaxy S24 Ultra	SM-S928U	US
Galaxy S24+	SM-S926B	EU
Galaxy S24+	SM-S926U	US
Galaxy S24	SM-S921B	EU
Galaxy S24	SM-S921U	US
Galaxy A25 5G	SM-A256B	EU
Galaxy A25 5G	SM-A256U	US
Galaxy A15	SM-A155E	SEA
Galaxy A15 5G	SM-A156U	US
Galaxy A15 5G	SM-A156E	SEA
Galaxy M34 5G	SM-M346B	SWA
Galaxy M44 5G	SM-M446K	KOR
Galaxy S23 FE	SM-S711B	EU
Galaxy S23 FE	SM-S711U	US
Galaxy Z Flip5	SM-F731B	EU
Galaxy Z Flip5	SM-F731U	US
Galaxy Z Fold5	SM-F946B	EU
Galaxy Z Fold5	SM-F946U	US
Galaxy M54 5G	SM-M546B	UAE
Galaxy M14 5G	SM-M146B	UAE
Galaxy A54 5G	SM-A546U	US
Galaxy A54 5G	SM-A546B	EU

Galaxy A34 5G         SM-A346B         EU           Galaxy A24         SM-A245F         EU           Galaxy A14         SM-A145F         EU           Galaxy A23 5G         SM-A236V         US           Galaxy S23 Ultra         SM-S918B         EU           Galaxy S23 Ultra         SM-S918U         US           Galaxy S23+         SM-S916B         EU           Galaxy S23+         SM-S916U         US           Galaxy S23         SM-S911B         EU           Galaxy S23         SM-S911U         US           Galaxy S23         SM-S911U         US           Galaxy S23         SM-S911U         US           Galaxy S24         SM-F936U         US           Galaxy S27         FIp4         SM-F936U         US           Galaxy Tepid4         SM-F721U         US           Galaxy A73 FG         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 FG         SM-A736B         EU           Galaxy M53 FG         SM-M36B         EU           Galaxy M23 FG         SM-M36B         EU           Galaxy M24 FE         SM-S908U         US           Galaxy S22 U	Product Name	Model Name	Country
Galaxy A14 SM-A145F EU Galaxy A23 5G SM-A236V US Galaxy S23 Ultra SM-S918B EU Galaxy S23 Ultra SM-S918U US Galaxy S23+ SM-S916B EU Galaxy S23+ SM-S916U US Galaxy S23 SM-S911U US Galaxy S23 SM-S911U US Galaxy Z Fold4 SM-F936U US Galaxy Z Fold4 SM-F721U US Galaxy XCover6 Pro SM-G736U US Galaxy A73 5G SM-A736B EU Galaxy A73 5G SM-M536B EU Galaxy M33 5G SM-M336B EU Galaxy M23 5G SM-M36B EU Galaxy M23 5G SM-M36B EU Galaxy S22 Ultra SM-S908U US Galaxy S22 Ultra SM-S908U US Galaxy S22+ SM-S906U US Galaxy S22+ SM-S906U US Galaxy S21 FE SM-G990B EU Galaxy S20 FE SM-G781B EU Z Fold3 SM-F711B EU Z Fold3 SM-F711B EU Z Fold3 SM-F711B EU A12 SM-A127F EU	Galaxy A34 5G	SM-A346B	EU
Galaxy A23 5G SM-A236V US Galaxy S23 Ultra SM-S918B EU Galaxy S23 Ultra SM-S918U US Galaxy S23+ SM-S916B EU Galaxy S23+ SM-S916U US Galaxy S23 SM-S911B EU Galaxy S23 SM-S911U US Galaxy Z Fold4 SM-F936U US Galaxy Z Flip4 SM-F721U US Galaxy XCover6 Pro SM-G736U US Galaxy M13 SM-M135F EU Galaxy A73 5G SM-A736B EU Galaxy M53 5G SM-M536B EU Galaxy M33 5G SM-M336B EU Galaxy M23 5G SM-M36B EU Galaxy M23 5G SM-M36B EU Galaxy S22 Ultra SM-S908U US Galaxy S22 Ultra SM-S908U US Galaxy S22 SM-S901U US Galaxy S21 FE SM-G990B EU Galaxy S20 FE SM-G781B EU Z Fold3 SM-F711B EU Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy A24	SM-A245F	EU
Galaxy S23 Ultra         SM-S918B         EU           Galaxy S23 Ultra         SM-S918U         US           Galaxy S23+         SM-S916B         EU           Galaxy S23+         SM-S916U         US           Galaxy S23         SM-S911B         EU           Galaxy S23         SM-S911U         US           Galaxy S23         SM-S911U         US           Galaxy S23         SM-F936U         US           Galaxy Z Fold4         SM-F936U         US           Galaxy Z Flip4         SM-F721U         US           Galaxy XCover6 Pro         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 5G         SM-A736B         EU           Galaxy M33 5G         SM-M536B         EU           Galaxy M33 5G         SM-M336B         EU           Galaxy A13         SM-A135F         EU           Galaxy S22 Ultra         SM-S908U         US           Galaxy S22+         SM-S906U         US           Galaxy S21 FE         SM-G990B         EU           Galaxy S20 FE         SM-G781B         EU           Z Fold3         SM-F711B         EU           Z Flip3	Galaxy A14	SM-A145F	EU
Galaxy S23 Ultra       SM-S918U       US         Galaxy S23+       SM-S916B       EU         Galaxy S23+       SM-S916U       US         Galaxy S23       SM-S911B       EU         Galaxy S23       SM-S911U       US         Galaxy S23       SM-S911U       US         Galaxy Z Fold4       SM-F936U       US         Galaxy Z Flip4       SM-F721U       US         Galaxy XCover6 Pro       SM-G736U       US         Galaxy M13       SM-M135F       EU         Galaxy M13       SM-M135F       EU         Galaxy A23       SM-A235F       EU         Galaxy M33 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F711B       EU         Z Flip3       SM-F711B       EU	Galaxy A23 5G	SM-A236V	US
Galaxy S23+         SM-S916B         EU           Galaxy S23+         SM-S916U         US           Galaxy S23         SM-S911B         EU           Galaxy S23         SM-S911U         US           Galaxy S23         SM-S911U         US           Galaxy S23         SM-S911U         US           Galaxy Z Flip4         SM-F936U         US           Galaxy Z Flip4         SM-F721U         US           Galaxy XCover6 Pro         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 5G         SM-A736B         EU           Galaxy M53 5G         SM-M536B         EU           Galaxy M33 5G         SM-M336B         EU           Galaxy M23 5G         SM-M236B         EU           Galaxy A13         SM-A135F         EU           Galaxy S22 Ultra         SM-S908U         US           Galaxy S22+         SM-S906U         US           Galaxy S21 FE         SM-G990B         EU           Galaxy S20 FE         SM-G781B         EU           Z Fold3         SM-F711B         EU           Z Flip3         SM-F711B         EU	Galaxy S23 Ultra	SM-S918B	EU
Galaxy S23+       SM-S916U       US         Galaxy S23       SM-S911B       EU         Galaxy S23       SM-S911U       US         Galaxy Z Fold4       SM-F936U       US         Galaxy Z Flip4       SM-F721U       US         Galaxy XCover6 Pro       SM-G736U       US         Galaxy M13       SM-M135F       EU         Galaxy A73 5G       SM-A736B       EU         Galaxy A23       SM-A235F       EU         Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F711B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy S23 Ultra	SM-S918U	US
Galaxy S23       SM-S911B       EU         Galaxy S23       SM-S911U       US         Galaxy Z Fold4       SM-F936U       US         Galaxy Z Flip4       SM-F721U       US         Galaxy XCover6 Pro       SM-G736U       US         Galaxy M13       SM-M135F       EU         Galaxy A73 5G       SM-A736B       EU         Galaxy A23       SM-A235F       EU         Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy S23+	SM-S916B	EU
Galaxy S23       SM-S911U       US         Galaxy Z Fold4       SM-F936U       US         Galaxy Z Flip4       SM-F721U       US         Galaxy XCover6 Pro       SM-G736U       US         Galaxy M13       SM-M135F       EU         Galaxy A73 5G       SM-A736B       EU         Galaxy A23       SM-A235F       EU         Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22 H       SM-S906U       US         Galaxy S22 SM-S901U       US       Galaxy S20 FE       SM-G781B       EU         Galaxy S20 FE       SM-G781B       EU       Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU       SM-A127F       EU	Galaxy S23+	SM-S916U	US
Galaxy Z Fold4         SM-F936U         US           Galaxy Z Flip4         SM-F721U         US           Galaxy XCover6 Pro         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 5G         SM-A736B         EU           Galaxy A23         SM-A235F         EU           Galaxy M53 5G         SM-M536B         EU           Galaxy M33 5G         SM-M336B         EU           Galaxy M23 5G         SM-M236B         EU           Galaxy A13         SM-A135F         EU           Galaxy S22 Ultra         SM-S908U         US           Galaxy S22+         SM-S906U         US           Galaxy S22+         SM-S906U         US           Galaxy S21 FE         SM-G990B         EU           Galaxy S20 FE         SM-G781B         EU           Z Fold3         SM-F926B         EU           Z Flip3         SM-F711B         EU           A12         SM-A127F         EU	Galaxy S23	SM-S911B	EU
Galaxy Z Flip4         SM-F721U         US           Galaxy XCover6 Pro         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 5G         SM-A736B         EU           Galaxy A23         SM-A235F         EU           Galaxy M53 5G         SM-M536B         EU           Galaxy M33 5G         SM-M336B         EU           Galaxy M23 5G         SM-M236B         EU           Galaxy A13         SM-A135F         EU           Galaxy S22 Ultra         SM-S908U         US           Galaxy S22+         SM-S906U         US           Galaxy S22+         SM-S906U         US           Galaxy S21 FE         SM-G990B         EU           Galaxy S20 FE         SM-G781B         EU           Z Fold3         SM-F926B         EU           Z Flip3         SM-F711B         EU           A12         SM-A127F         EU	Galaxy S23	SM-S911U	US
Galaxy XCover6 Pro         SM-G736U         US           Galaxy M13         SM-M135F         EU           Galaxy A73 5G         SM-A736B         EU           Galaxy A23         SM-A235F         EU           Galaxy M53 5G         SM-M536B         EU           Galaxy M33 5G         SM-M336B         EU           Galaxy M23 5G         SM-M236B         EU           Galaxy A13         SM-A135F         EU           Galaxy S22 Ultra         SM-S908U         US           Galaxy S22+         SM-S906U         US           Galaxy S22         SM-S901U         US           Galaxy S21 FE         SM-G990B         EU           Galaxy S20 FE         SM-G781B         EU           Z Fold3         SM-F926B         EU           Z Flip3         SM-F711B         EU           A12         SM-A127F         EU	Galaxy Z Fold4	SM-F936U	US
Galaxy M13       SM-M135F       EU         Galaxy A73 5G       SM-A736B       EU         Galaxy A23       SM-A235F       EU         Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy Z Flip4	SM-F721U	US
Galaxy A73 5G SM-A736B EU Galaxy A23 SM-A235F EU Galaxy M53 5G SM-M536B EU Galaxy M33 5G SM-M336B EU Galaxy M23 5G SM-M236B EU Galaxy A13 SM-A135F EU Galaxy S22 Ultra SM-S908U US Galaxy S22+ SM-S906U US Galaxy S22 SM-S901U US Galaxy S21 FE SM-G990B EU Galaxy S20 FE SM-G781B EU Z Fold3 SM-F926B EU Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy XCover6 Pro	SM-G736U	US
Galaxy A23       SM-A235F       EU         Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy M13	SM-M135F	EU
Galaxy M53 5G       SM-M536B       EU         Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy A73 5G	SM-A736B	EU
Galaxy M33 5G       SM-M336B       EU         Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy A23	SM-A235F	EU
Galaxy M23 5G       SM-M236B       EU         Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy M53 5G	SM-M536B	EU
Galaxy A13       SM-A135F       EU         Galaxy S22 Ultra       SM-S908U       US         Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy M33 5G	SM-M336B	EU
Galaxy S22 Ultra SM-S908U US  Galaxy S22+ SM-S906U US  Galaxy S22 SM-S901U US  Galaxy S21 FE SM-G990B EU  Galaxy S20 FE SM-G781B EU  Z Fold3 SM-F926B EU  Z Flip3 SM-F711B EU  A12 SM-A127F EU	Galaxy M23 5G	SM-M236B	EU
Galaxy S22+       SM-S906U       US         Galaxy S22       SM-S901U       US         Galaxy S21 FE       SM-G990B       EU         Galaxy S20 FE       SM-G781B       EU         Z Fold3       SM-F926B       EU         Z Flip3       SM-F711B       EU         A12       SM-A127F       EU	Galaxy A13	SM-A135F	EU
Galaxy S22 SM-S901U US Galaxy S21 FE SM-G990B EU Galaxy S20 FE SM-G781B EU Z Fold3 SM-F926B EU Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy S22 Ultra	SM-S908U	US
Galaxy S21 FE SM-G990B EU  Galaxy S20 FE SM-G781B EU  Z Fold3 SM-F926B EU  Z Flip3 SM-F711B EU  A12 SM-A127F EU	Galaxy S22+	SM-S906U	US
Galaxy S20 FE SM-G781B EU Z Fold3 SM-F926B EU Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy S22	SM-S901U	US
Z Fold3 SM-F926B EU Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy S21 FE	SM-G990B	EU
Z Flip3 SM-F711B EU A12 SM-A127F EU	Galaxy S20 FE	SM-G781B	EU
A12 SM-A127F EU	Z Fold3	SM-F926B	EU
	Z Flip3	SM-F711B	EU
Galaxy Note 20 Ultra SM-N986B EU	A12	SM-A127F	EU
	Galaxy Note 20 Ultra	SM-N986B	EU

# Life Cycle Assessment for Galaxy Z Flip6

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to China
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Circular Economy Lab of Samsung Electronics. (ecodesign@samsung.com)

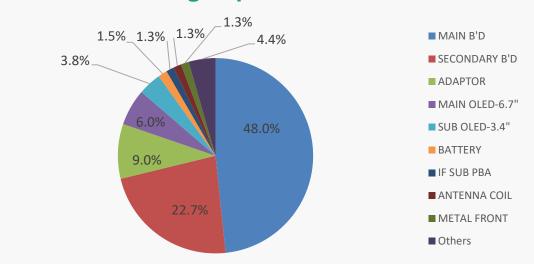


Model name	SM-F7410(Galaxy Z Flip6)	
Dimension	165.1 x 71.9 x 6.9 mm	
Display	OLED 6.7" / 3.4"	
Weight	Product&Acc.: 263.63 g Packages : 177.80 g	

### Characterized Environment Impact

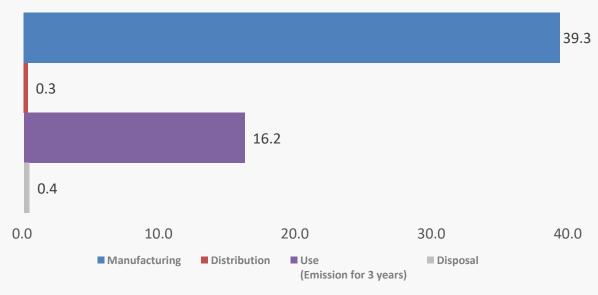


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO₂ eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Fold6

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

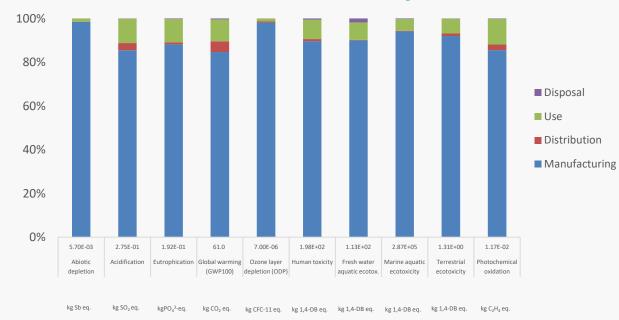
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

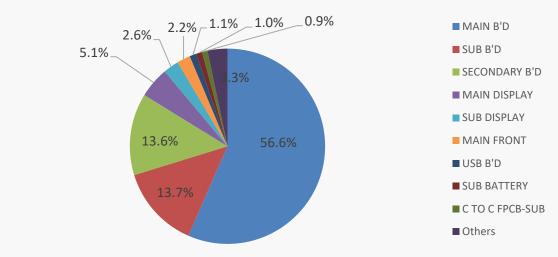
Critical review for LCA study was done by internal expert in Circular Economy Lab of Samsung Electronics. (ecodesign@samsung.com)

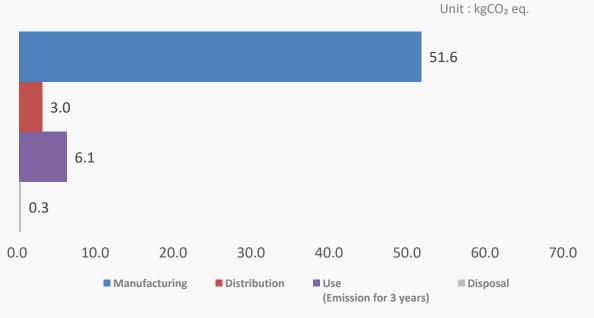


## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Fold6

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

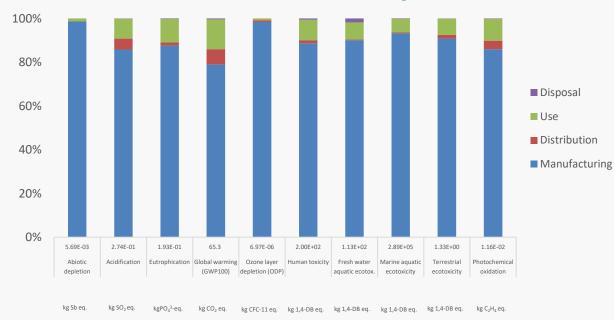
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and Korea to US
Use	3 years use
Disposal	Waste treatment of parts and material

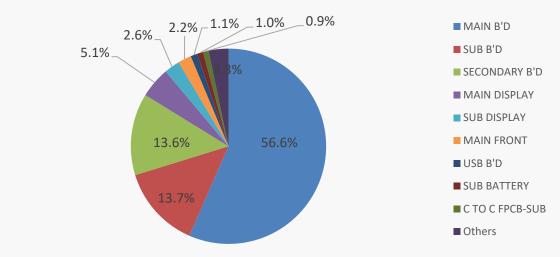
Critical review for LCA study was done by internal expert in Circular Economy Lab of Samsung Electronics. (ecodesign@samsung.com)

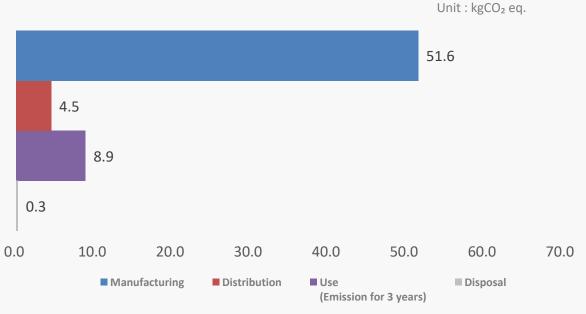


## Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Flip6

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Circular Economy Lab of Samsung Electronics. (ecodesign@samsung.com)

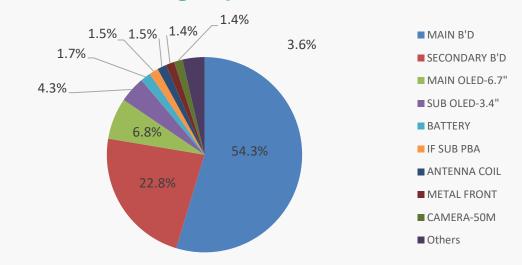


Model name	SM-F741B(Galaxy Z Flip6)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc.: 208.54 g Packages : 130.45 g

### Characterized Environment Impact

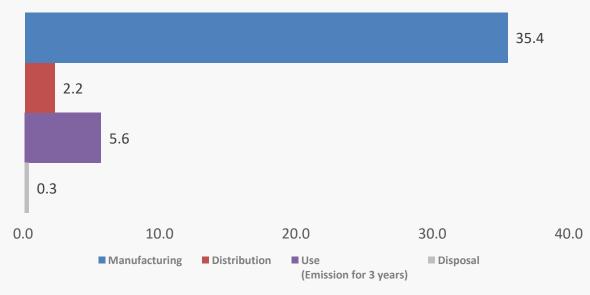


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO₂ eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Flip6

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

# System boundary of LCA

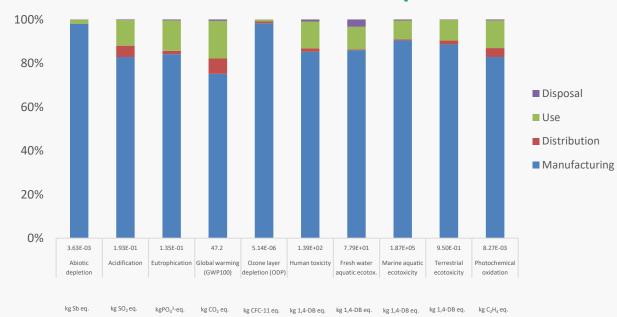
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and Korea to US
Use	3 years use
Disposal	Waste treatment of parts and material

Critical review for LCA study was done by internal expert in Circular Economy Lab of Samsung Electronics. (ecodesign@samsung.com)

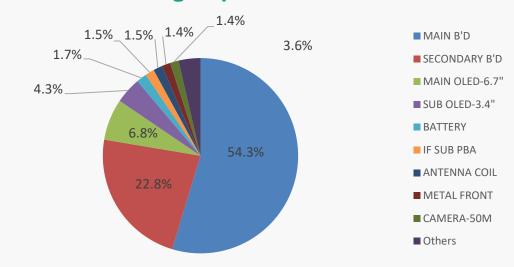


Model name	SM-F741U(Galaxy Z Flip6)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc.: 208.54 g Packages : 130.45 g

### Characterized Environment Impact

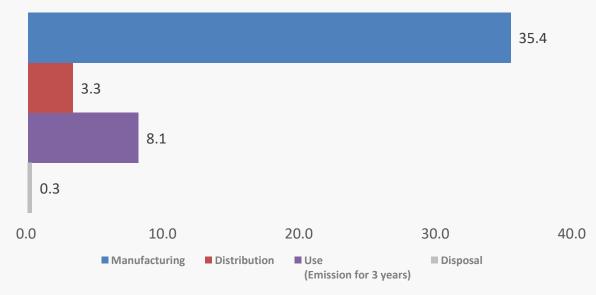


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO₂ eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M35 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

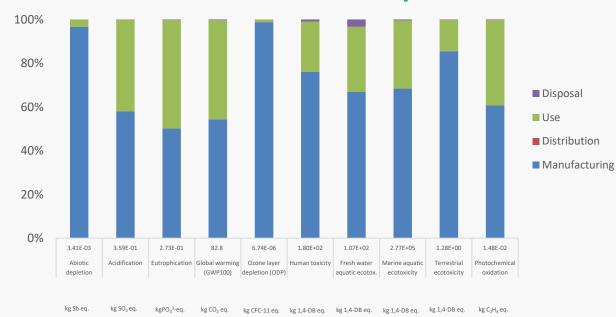
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From India to India
Use	3 years use
Disposal	Waste treatment of parts and material

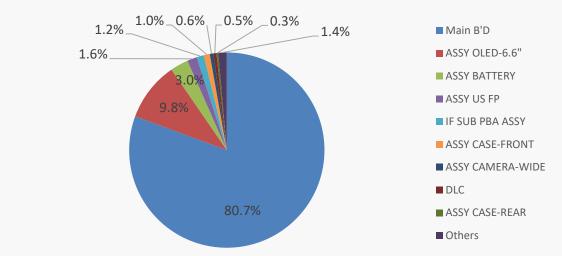


Model name	SM-M356B(Galaxy M35 5G)
Dimension	162.3 x 78.6 x 9.1 mm
Display	OLED 6.6"
Weight	Product&Acc.: 243.16 g Packages : 99.57 g

### Characterized Environment Impact

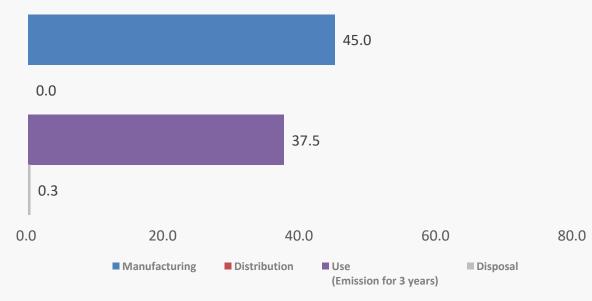


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO₂ eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A35 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

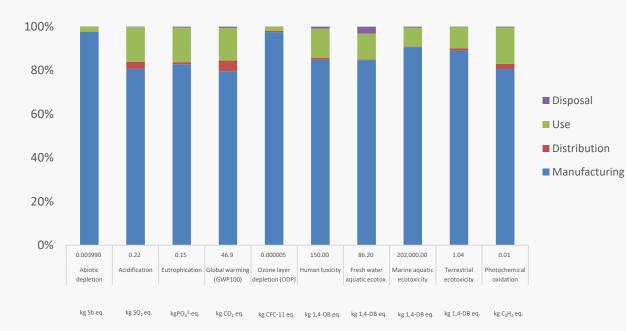
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

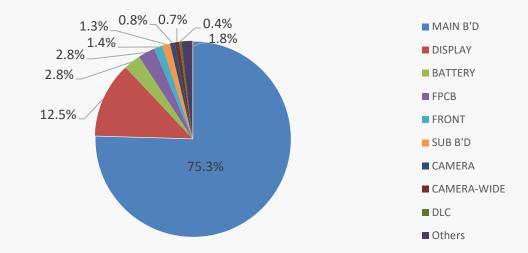


Model name	SM-A356B(Galaxy A35 5G)
Dimension	161.1 x 78.0 x 8.2 mm
Display	LCD 6.6"
Weight	Product & Acc. : 231.62g Packages : 114.83g

### Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A55 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.6.0.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.10
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.6.0.1 LCA tool
LCA software	SimaPro 9.6.0.1

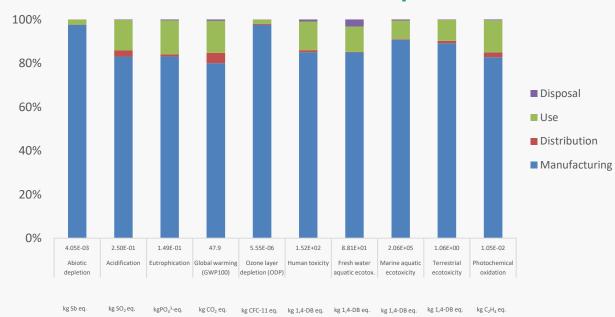
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

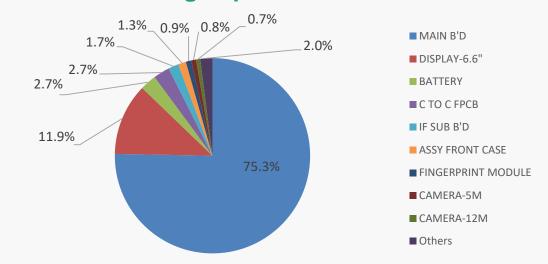


Model name	SM-A556B(Galaxy A55 5G)
Dimension	161.1 x 77.4 x 8.2 mm
Display	LCD 6.6"
Weight	Product&Acc.: 235.93 g Packages : 119.29 g

### Characterized Environment Impact

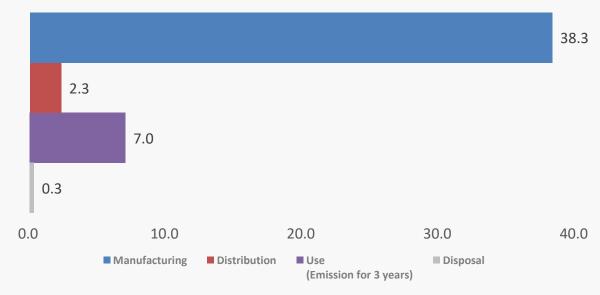


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO₂ eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M15 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

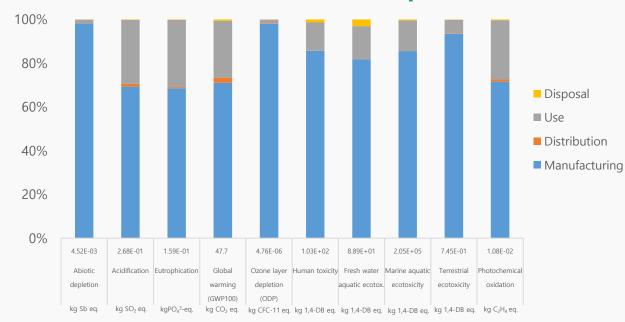
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and India to Turkiye
Use	3 years use
Disposal	Waste treatment of parts and material

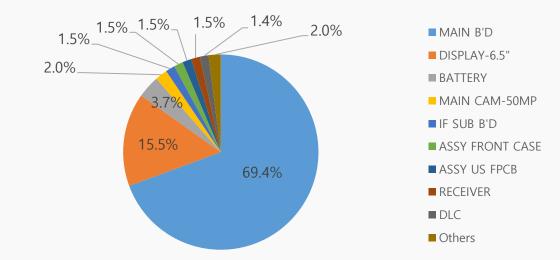


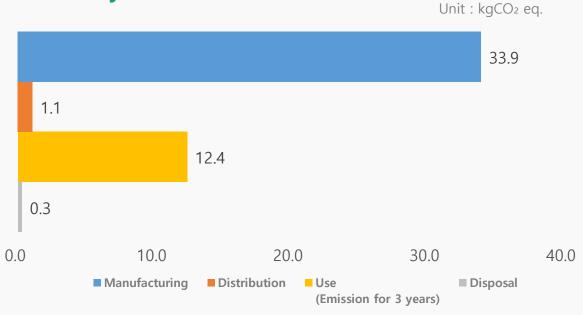
Model name	SM-M156B(Galaxy M15 5G)
Dimension	160.1 x 76.8 x 9.3mm
Display	OLED 6.5"
Weight	Product&Acc.: 236.88 g Packages : 89.77 g

## Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy XCover7

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

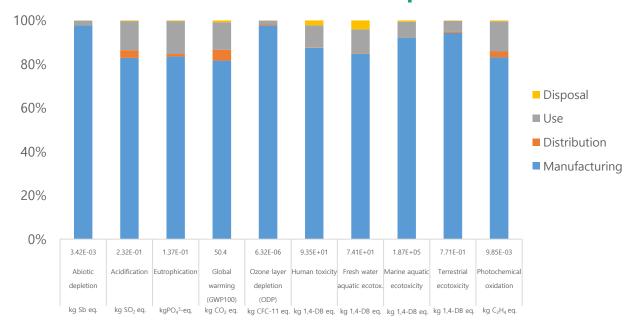
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

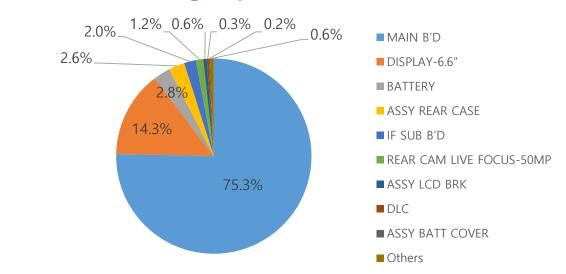


Model name	SM-G556B(Galaxy XCover7)
Dimension	169.0 x 80.1 x 10.2 mm
Display	LCD 6.6"
Weight	Product&Acc.: 261.75 g Packages : 114.76 g

## Characterized Environment Impact

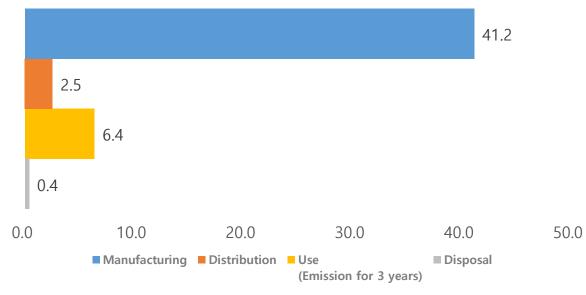


## Global Warming Impact Profile



# Life Cycle Carbon Emissions

Unit : kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24 Ultra

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

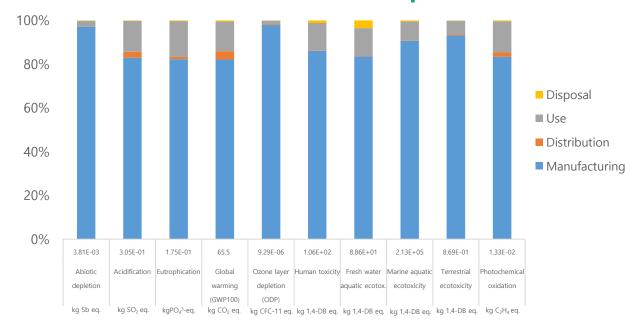
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

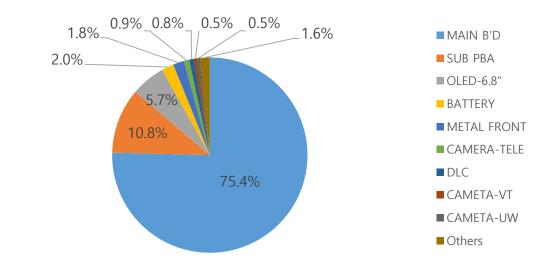


Model name	SM-S928B(Galaxy S24 Ultra)
Dimension	162.3 x 79 x 8.6 mm
Display	OLED 6.8"
Weight	Product&Acc.: 253.41 g Packages : 124.63 g

## Characterized Environment Impact



## Global Warming Impact Profile



## Life Cycle Carbon Emissions

■ Manufacturing ■ Distribution ■ Use

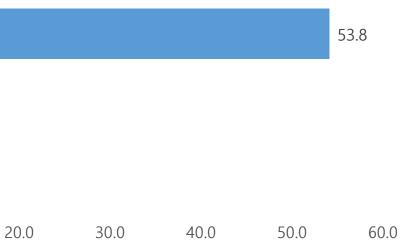
2.5

0.3

0.0

8.9

10.0



Unit: kgCO2 eq.

Disposal

(Emission for 3 years)

<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24 Ultra

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

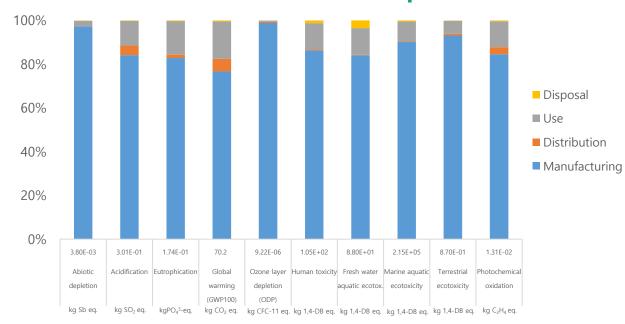
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

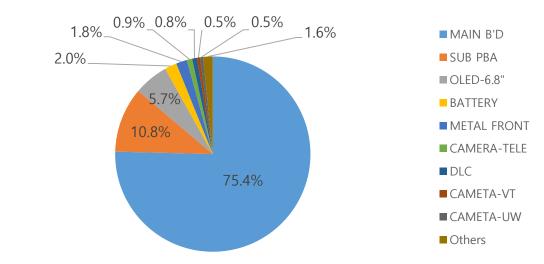


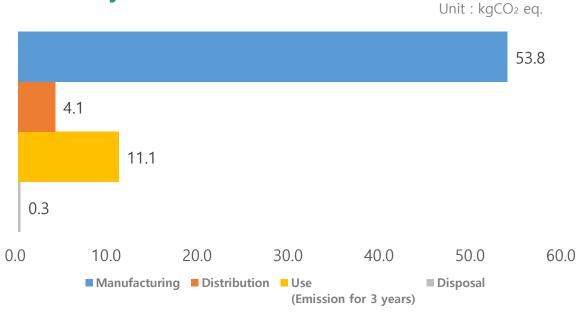
Model name	SM-S928U(Galaxy S24 Ultra)
Dimension	162.3 x 79 x 8.6 mm
Display	OLED 6.8"
Weight	Product&Acc.: 253.41 g Packages : 124.63 g

## Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24+

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

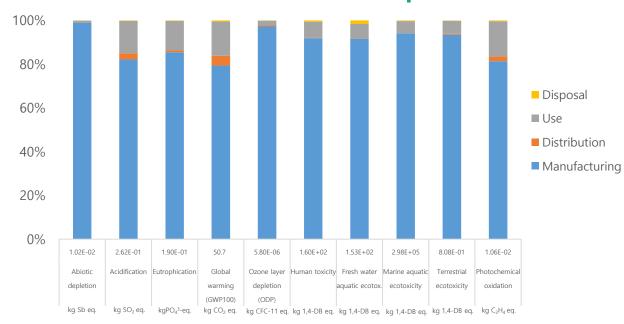
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

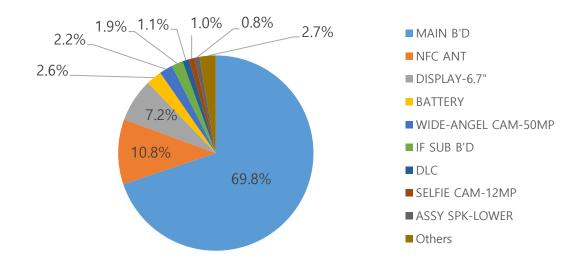


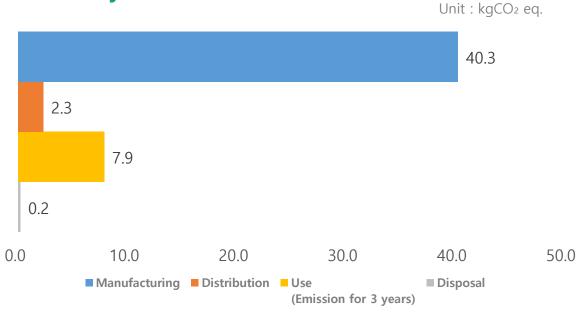
Model name	SM-S926B(Galaxy S24+)
Dimension	158.5 x 75.9 x 7.7 mm
Display	OLED 6.7"
Weight	Product&Acc.: 215.42 g Packages : 124.05 g

## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24+

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

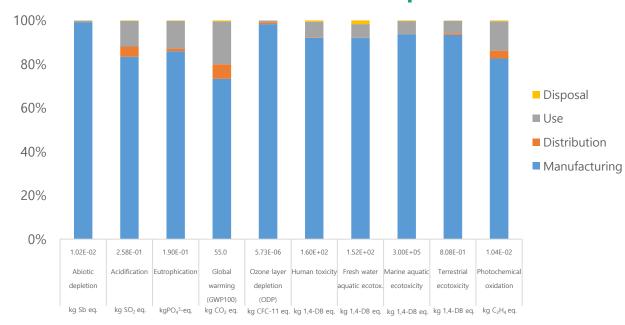
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

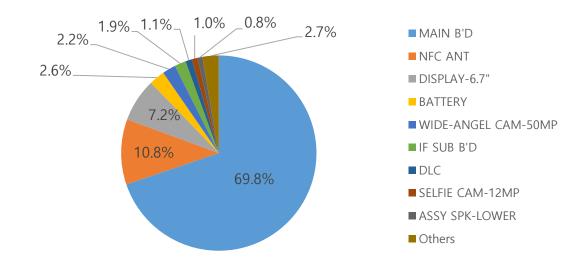


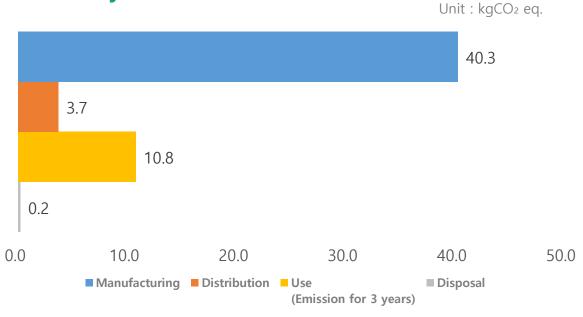
Model name	SM-S926U(Galaxy S24+)
Dimension	158.5 x 75.9 x 7.7 mm
Display	OLED 6.7"
Weight	Product&Acc.: 215.42 g Packages : 124.05 g

## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

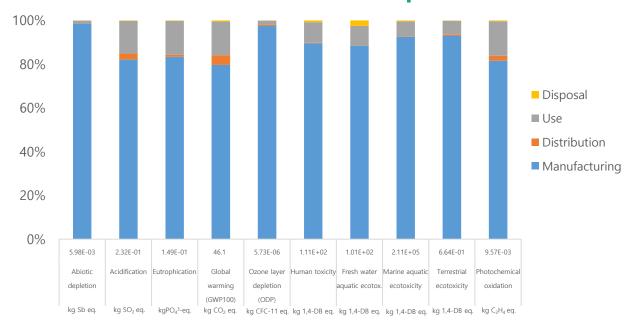
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

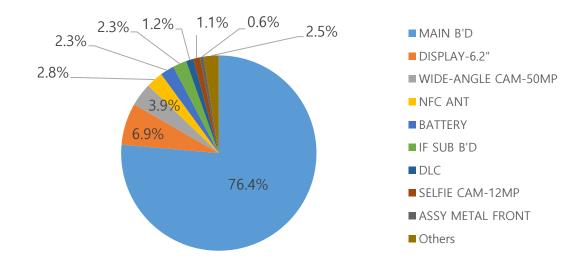


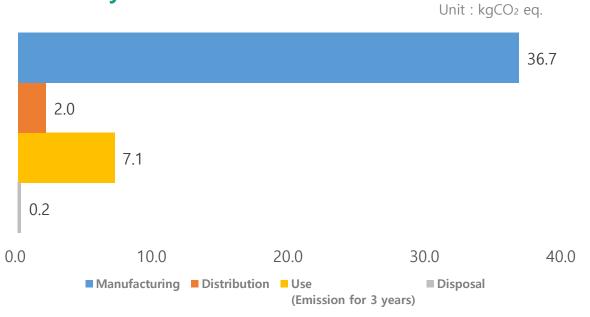
Model name	SM-S921B(Galaxy S24)
Dimension	147.0 x 70.6 x 7.6 mm
Display	OLED 6.2"
Weight	Product&Acc.: 186.42 g Packages : 118.64 g

## Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S24

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

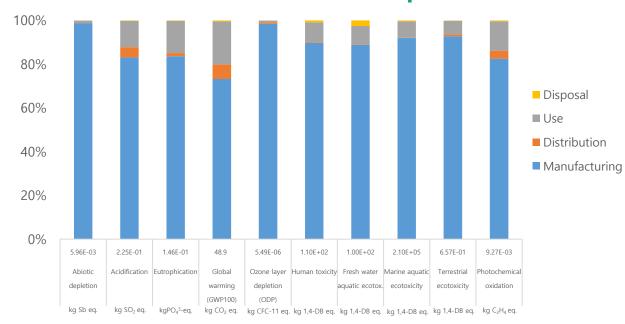
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date: Feb 16, 2024

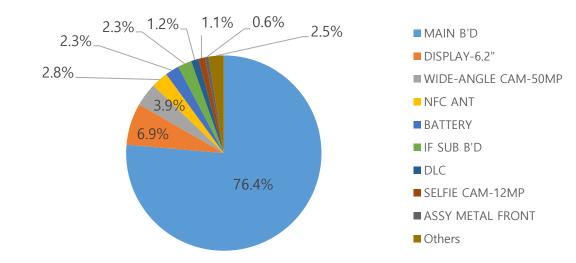


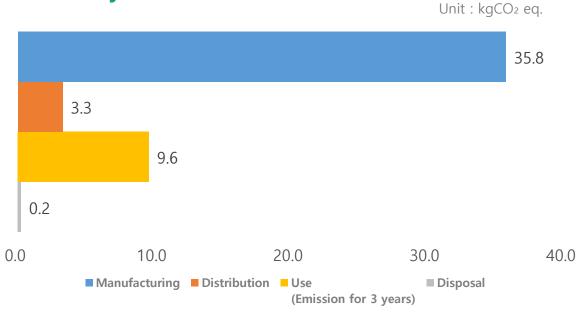
Model name	SM-S921U(Galaxy S24)
Dimension	147.0 x 70.6 x 7.6mm
Display	OLED 6.2"
Weight	Product&Acc.: 186.42 g Packages : 118.88 g

## Characterized Environment Impact



### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A25 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

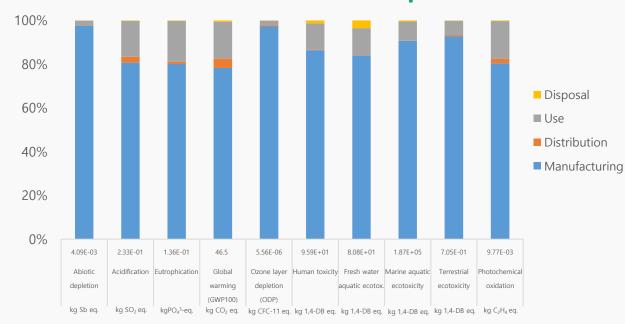
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

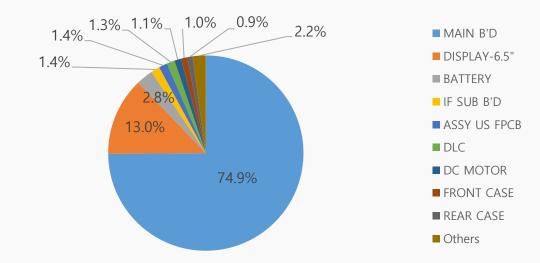


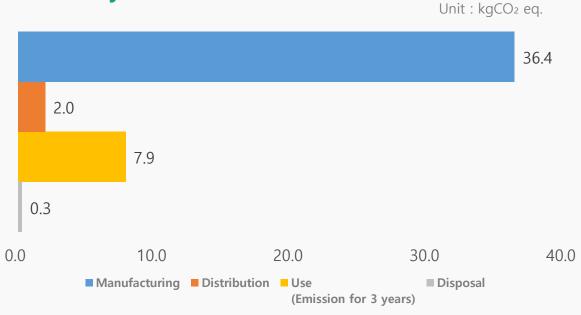
Model name	SM-A256B(Galaxy A25 5G)
Dimension	161.0 x 76.5 x 8.3 mm
Display	OLED 6.5"
Weight	Product&Acc.: 216.88 g Packages : 77.29 g

# Characterized Environment Impact



## Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A25 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

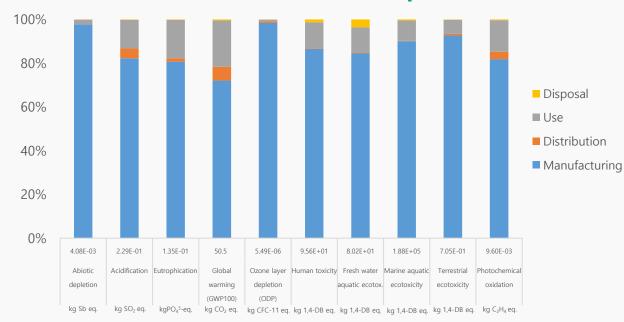
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

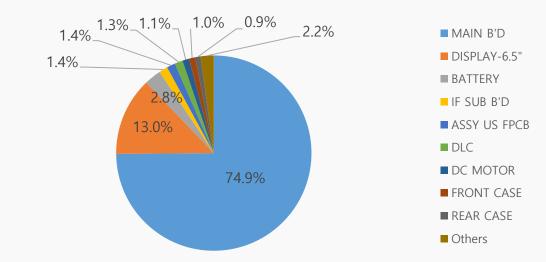


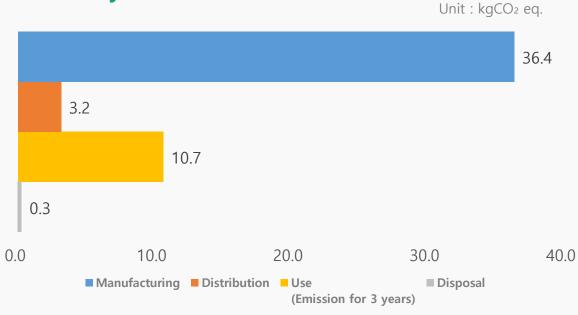
Model name	SM-A256U(Galaxy A25 5G)
Dimension	161.0 x 76.5 x 8.3 mm
Display	OLED 6.5"
Weight	Product&Acc.: 216.88 g Packages : 77.29 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A15

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

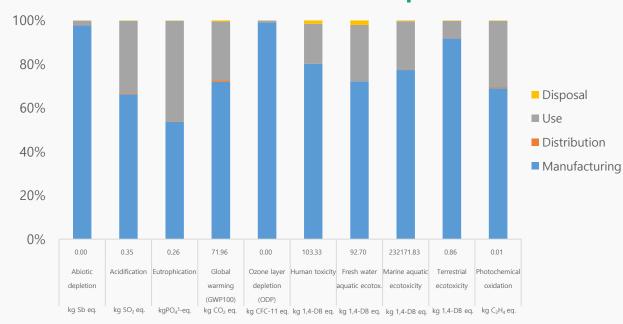
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to SEA
Use	3 years use
Disposal	Waste treatment of parts and material

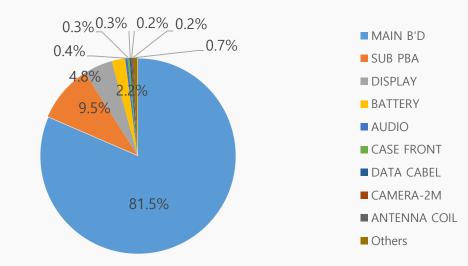


Model name	SM-A155E(Galaxy A15)
Dimension	160.1 x 76.8 x 8.4 mm
Display	6.5" AMOLED 2X
Weight	Product&Acc. : 222.06 g Packages : 91.7 g

## Characterized Environment Impact

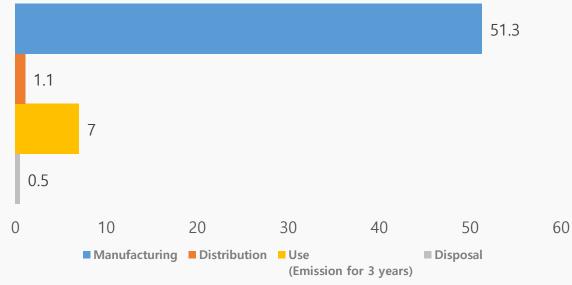


# Global Warming Impact Profile



#### Life Cycle Carbon Emissions

Unit : kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A15 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

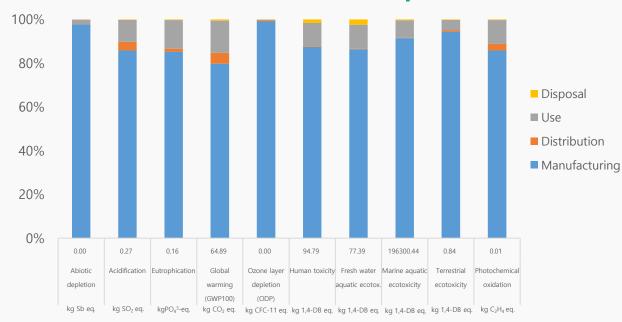
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

### System boundary of LCA

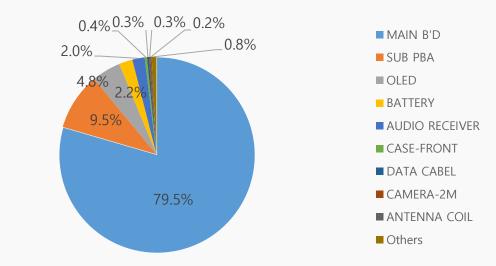
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

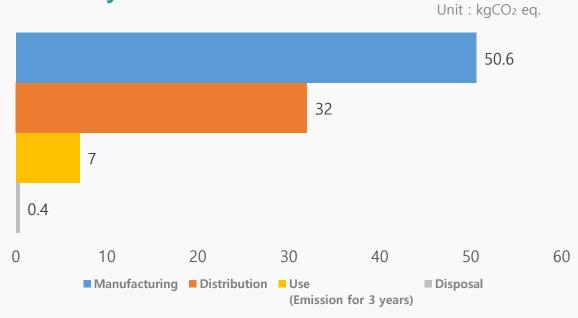


#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A15 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

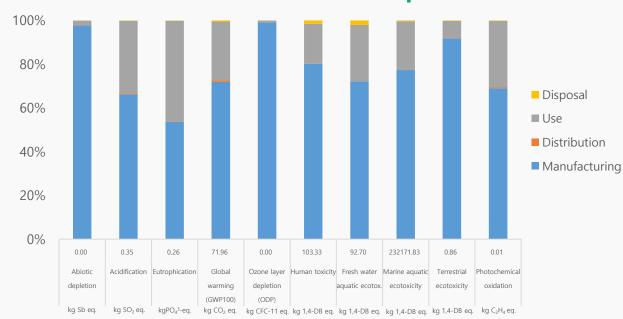
Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Lifecycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

## System boundary of LCA

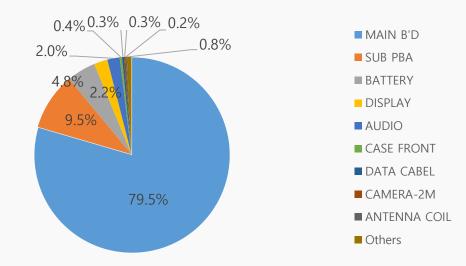
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to SEA
Use	3 years use
Disposal	Waste treatment of parts and material

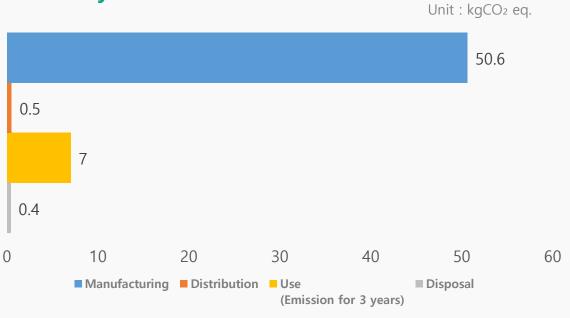


#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M34 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

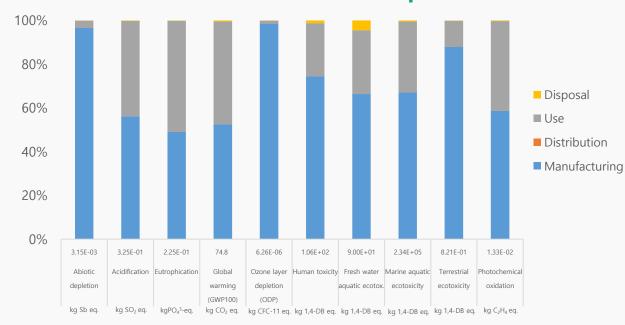
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From India to India
Use	3 years use
Disposal	Waste treatment of parts and material

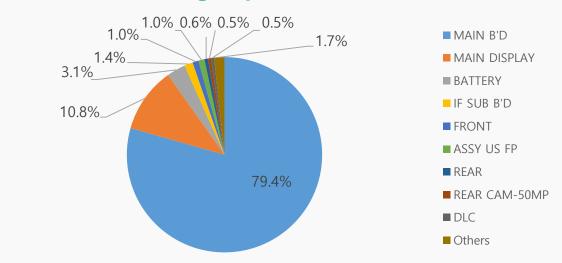


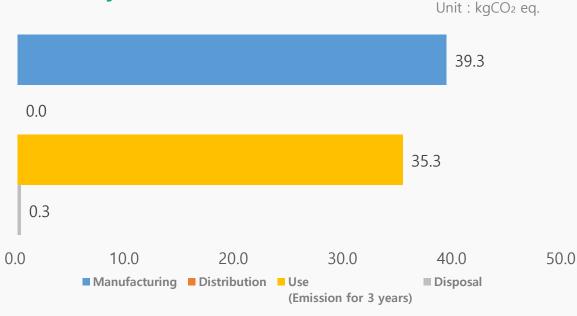
Model name	SM-M346B(Galaxy M34 5G)
Dimension	161.7 x 77.2 x 8.8 mm
Display	OLED 6.5"
Weight	Product&Acc.: 229.16 g Packages : 96.92g

### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M44 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

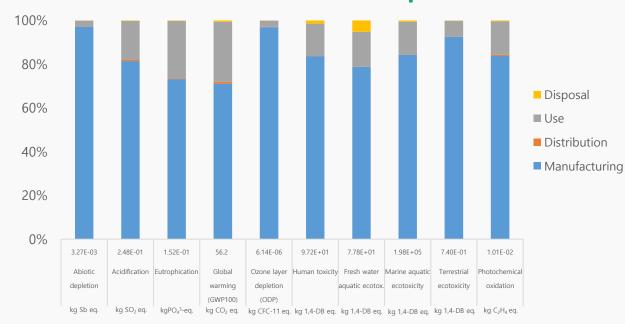
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to KOR
Use	3 years use
Disposal	Waste treatment of parts and material

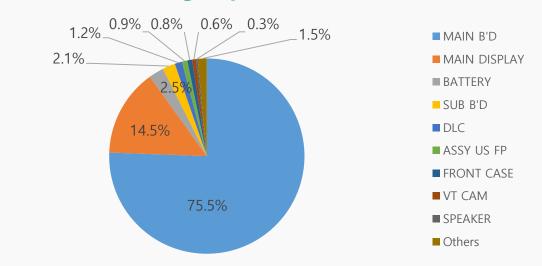


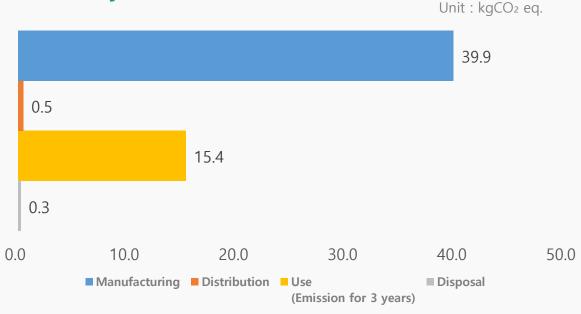
Model name	SM-M446K(Galaxy M44 5G)
Dimension	167.7 x 78.0 x 9.1 mm
Display	FHD+ 6.6"
Weight	Product&Acc.: 235.95 g Packages : 102.19 g

## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S23 FE

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

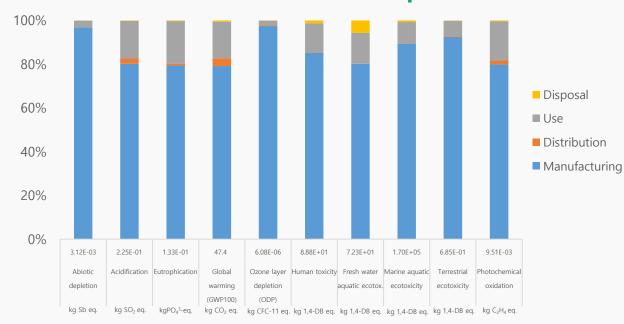
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

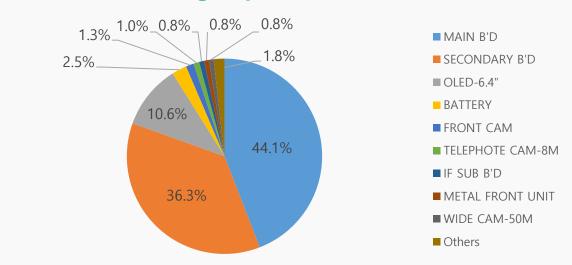


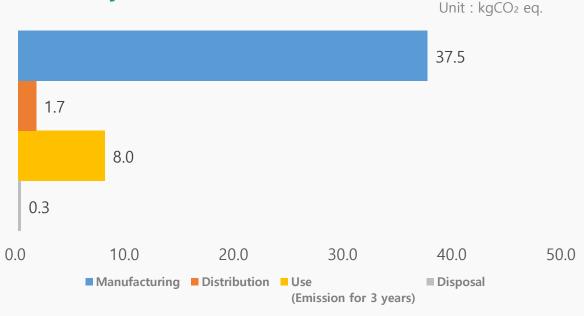
Model name	SM-S711B(Galaxy S23 FE)
Dimension	158.0 x 76.5 x 8.2 mm
Display	OLED 6.4"
Weight	Product&Acc.: 228.99 g Packages : 116.54 g

## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S23 FE

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

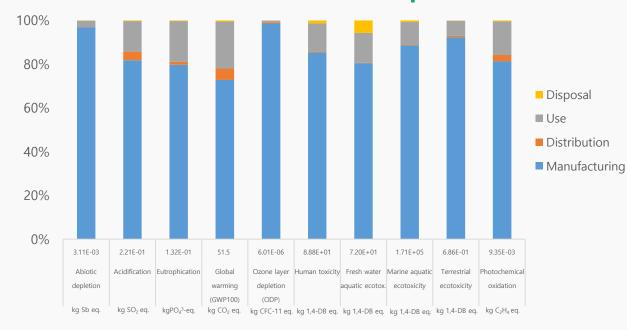
### System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

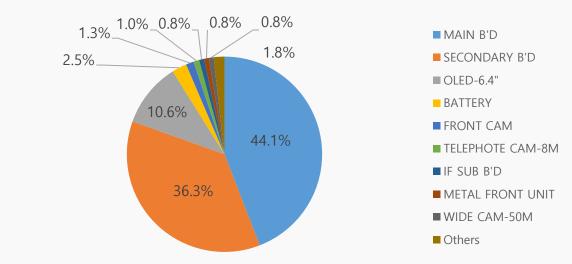


Model name	SM-S711U(Galaxy S23 FE)
Dimension	158.0 x 76.5 x 8.2mm
Display	OLED 6.4"
Weight	Product&Acc.: 228.99 g Packages : 116.54 g

## Characterized Environment Impact

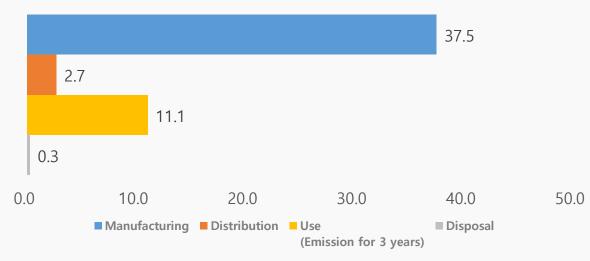


#### Global Warming Impact Profile



# Life Cycle Carbon Emissions

Unit: kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Flip5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

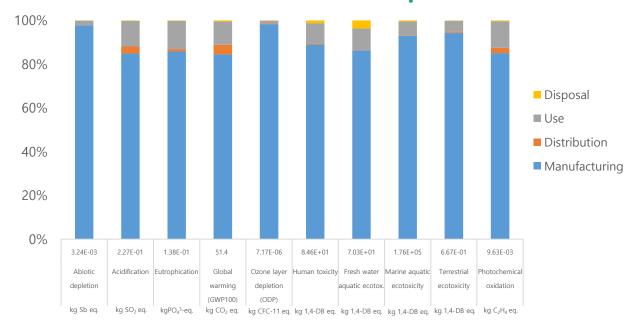
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

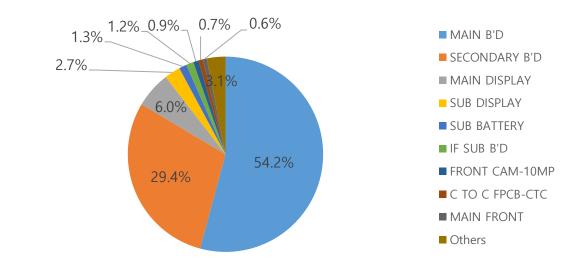


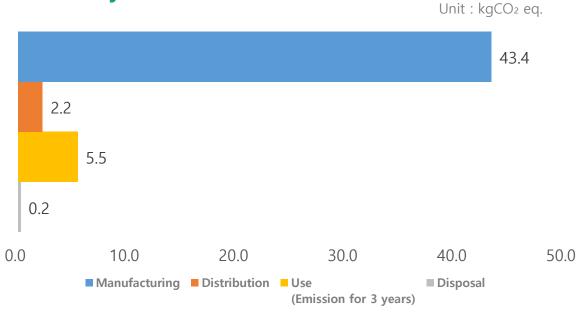
Model name	SM-F731B(Galaxy Z Flip5)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc.: 206.99 g Packages : 126.60 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Flip5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

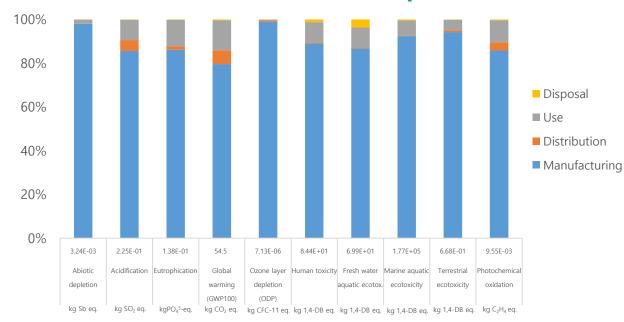
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

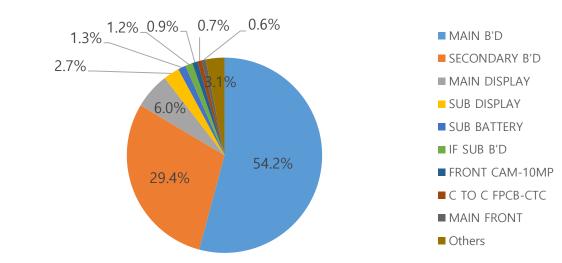


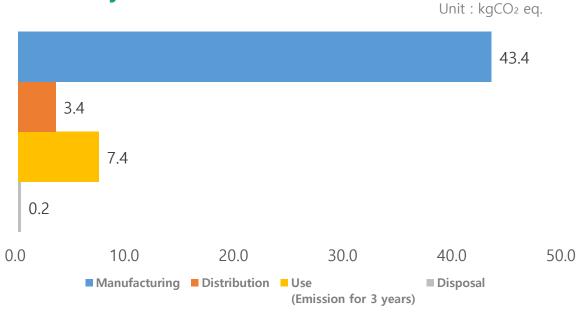
Model name	SM-F731U(Galaxy Z Flip5)
Dimension	165.1 x 71.9 x 6.9 mm
Display	OLED 6.7" / 3.4"
Weight	Product&Acc.: 206.99 g Packages : 126.60 g

#### Characterized Environment Impact



### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Fold5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

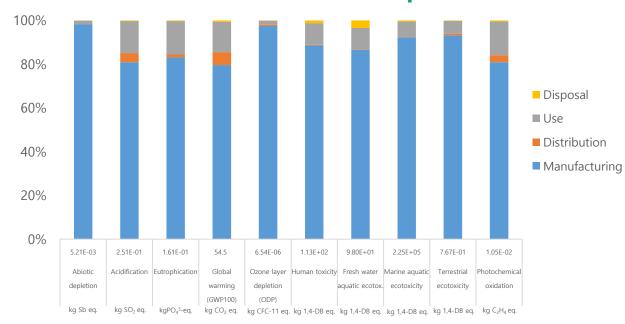
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

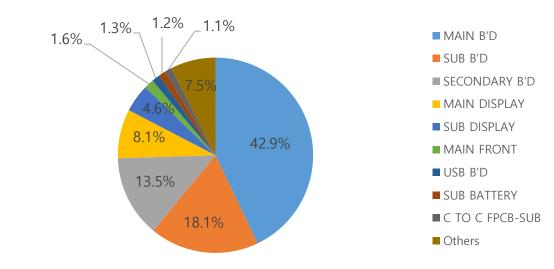


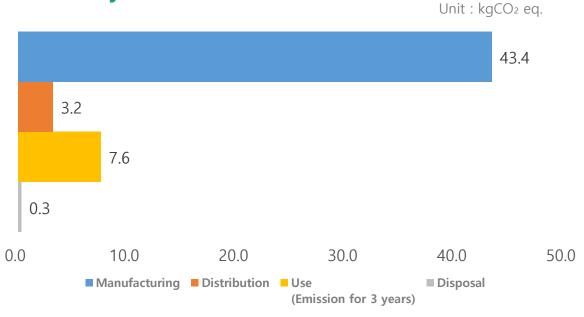
Model name	SM-F946B(Galaxy Z Fold5)
Dimension	154.9 x 129.9 x 6.1 mm
Display	OLED 7.6" / 6.2"
Weight	Product&Acc.: 272.99 g Packages : 206.99 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Z Fold5

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.5.0.0 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.9.1
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.09 / the Netherlands, 1997 as provided in the SimaPro 9.5.0.0 LCA tool
LCA software	SimaPro 9.5.0.0

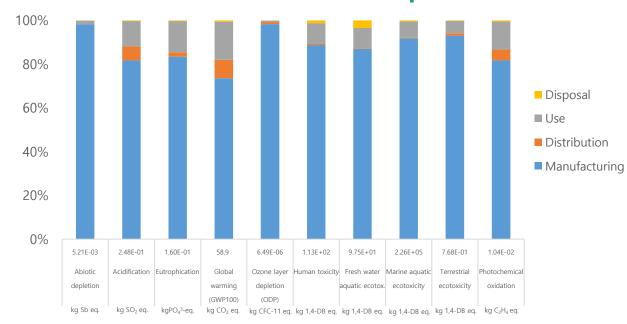
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

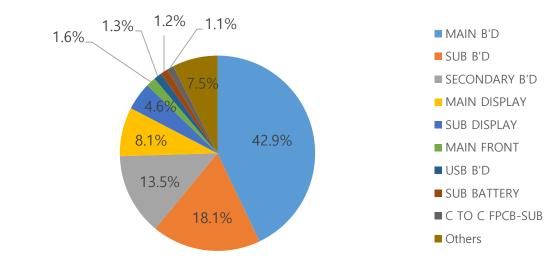


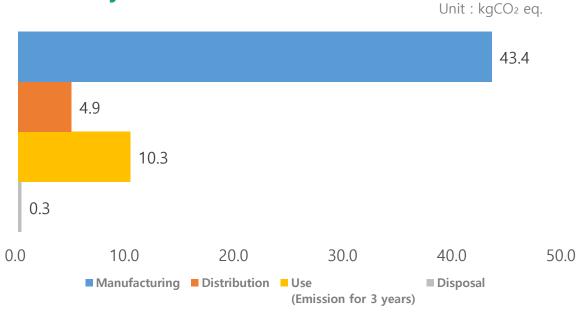
Model name	SM-F946U(Galaxy Z Fold5)
Dimension	154.9 x 129.9 x 6.1 mm
Display	OLED 7.6" / 6.2"
Weight	Product&Acc.: 272.99 g Packages : 206.99 g

## Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M54 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

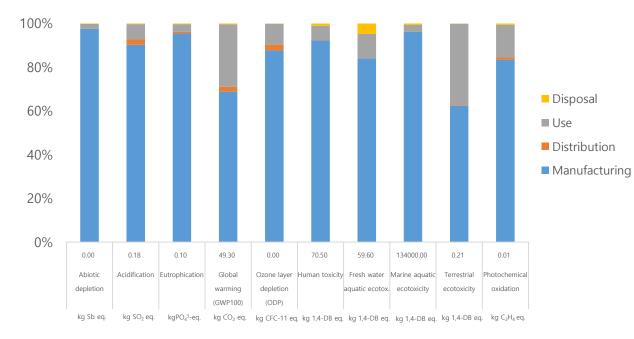
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material

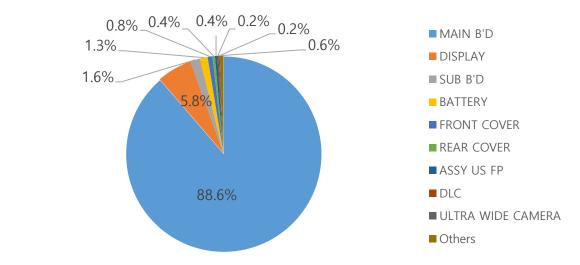


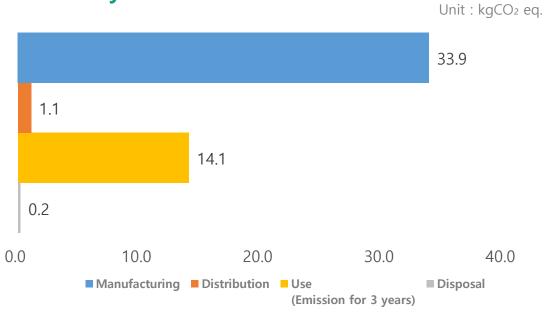
Model nar	ne	SM-M546B(Galaxy M54 5G)
Dimensio	n	164.9 x 77.3 x 8.4 mm
Display		6.7" OLED
Weight		Product&Acc.: 220.18 g Packages : 111.33 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy M14 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

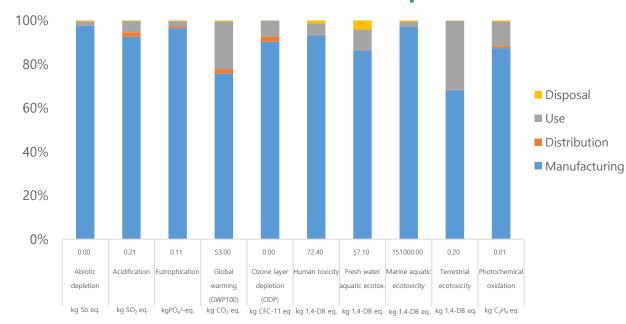
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material

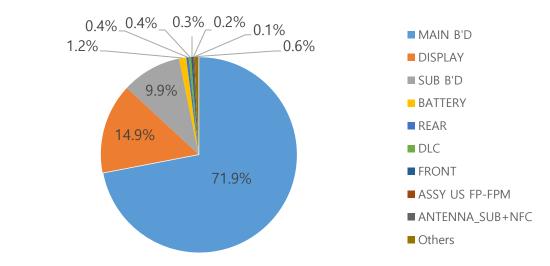


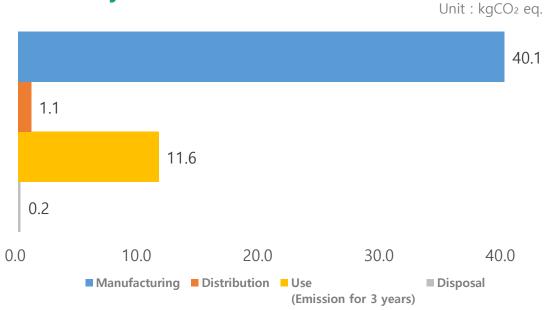
Model name	SM-M146B(Galaxy M14 5G)
Dimension	166.8 x 77.2 x 9.4 mm
Display	6.6" OLED
Weight	Product&Acc.: 226.52 g Packages : 71.85 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A54 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

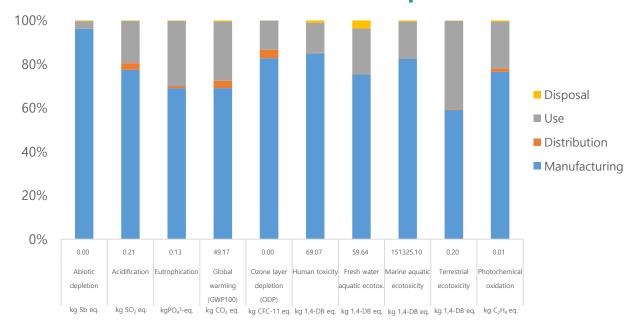
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

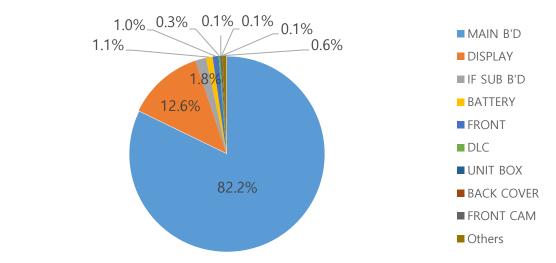


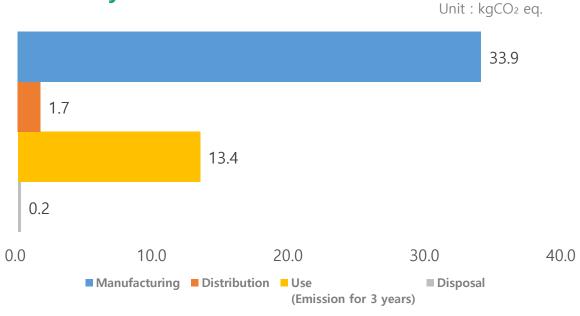
Model name	SM-A546U(Galaxy A54 5G)
Dimension	158.2 x 76.7 x 8.2 mm
Display	6.4" OLED
Weight	Product&Acc.: 223.42 g Packages : 108.72 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A54 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

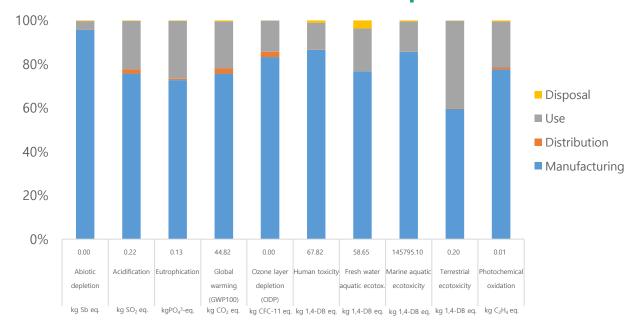
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

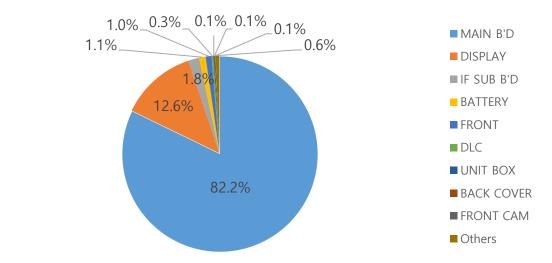


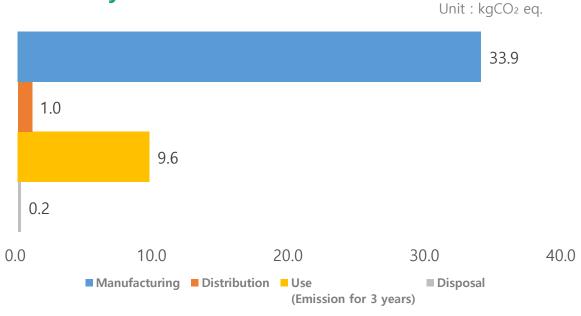
Model name	SM-A546B(Galaxy A54 5G)
Dimension	158.2 x 76.7 x 8.2 mm
Display	6.4" OLED
Weight	Product&Acc.: 223.42 g Packages : 108.72 g

#### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A34 5G

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

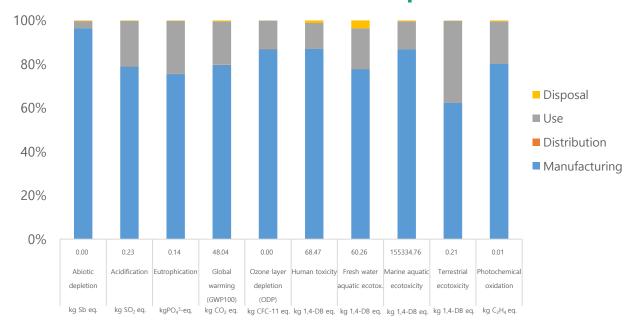
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to EU
Use	3 years use
Disposal	Waste treatment of parts and material

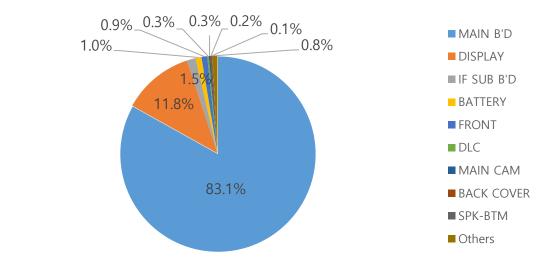


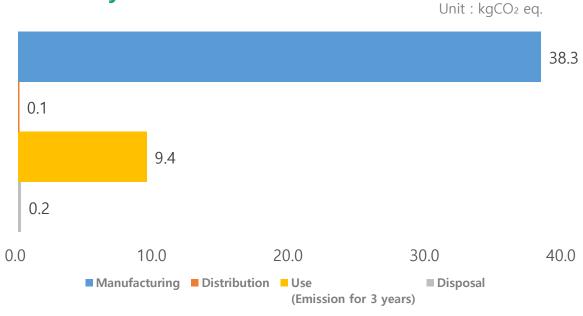
Model name	SM-A346B(Galaxy A34 5G)
Dimension	161.3 x 78.1 x 8.2 mm
Display	6.6" OLED
Weight	Product&Acc.: 220.42 g Packages : 106.95 g

### Characterized Environment Impact



#### Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A24

#### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.4.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML-IA baseline V3.06 / the Netherlands, 1997 as provided in the SimaPro 9.4.0.3 LCA tool
LCA software	SimaPro 9.4.0.3

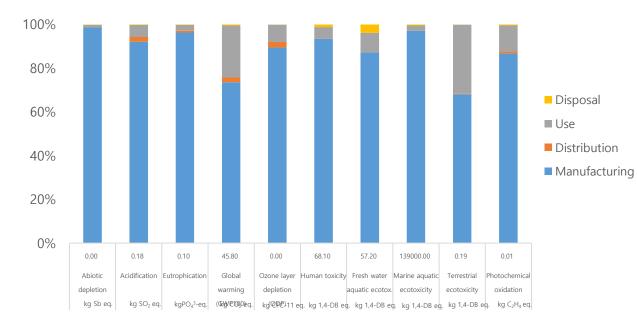
## System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to UAE
Use	3 years use
Disposal	Waste treatment of parts and material

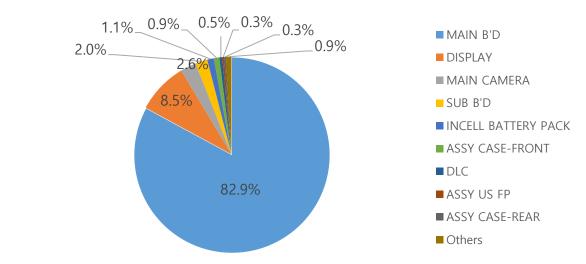


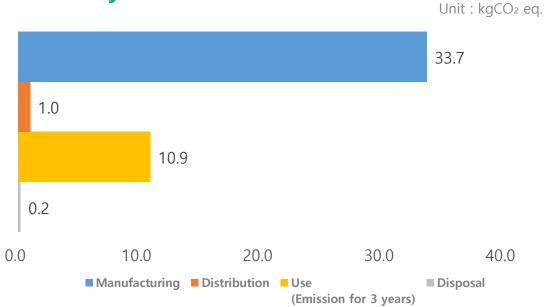
Model name	SM-A245F(Galaxy A24)
Dimension	162.1 x 77.6 x 8.3 mm
Display	6.5" OLED
Weight	Product&Acc.: 217.06 g Packages : 66.84 g

#### Characterized Environment Impact



# Global Warming Impact Profile





<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A14

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

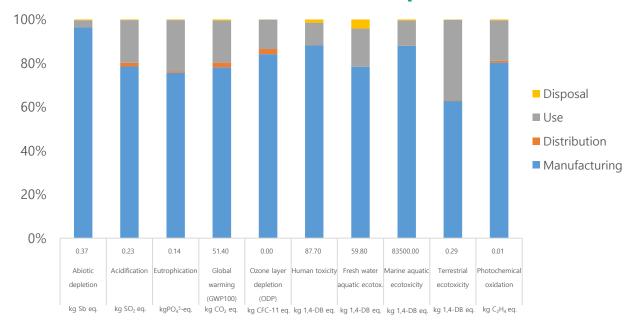
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

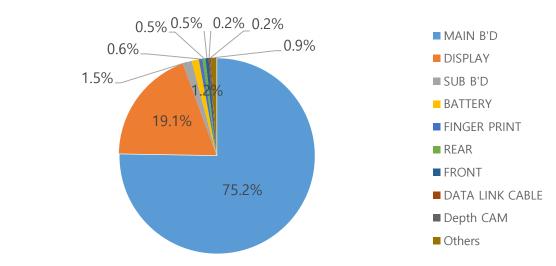


Model name	SM-A145F(Galaxy A14)
Dimension	167.7 x 78 x 9.1 mm
Display	6.6" FHD+
Weight	Product&Acc. : 221.87 g Packages : 66.23 g

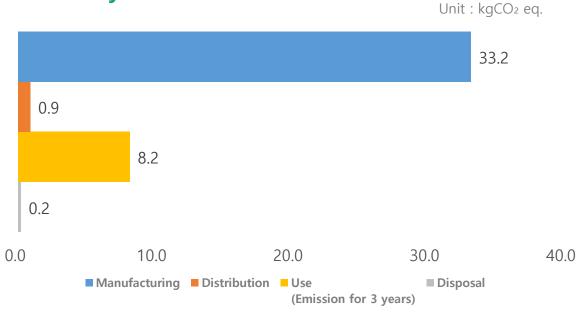
## Characterized Environment Impact



# Global Warming Impact Profile



# Life Cycle Carbon Emissions



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A23 5G

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

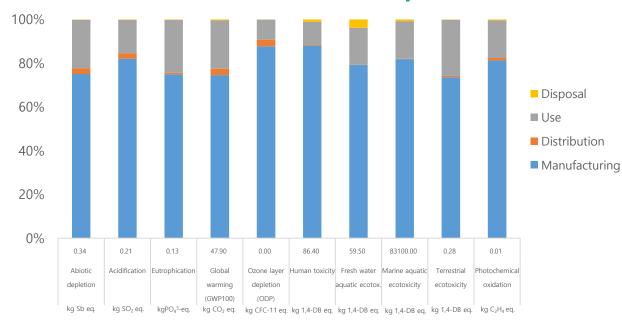
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam to US
Use	3 years use
Disposal	Waste treatment of parts and material

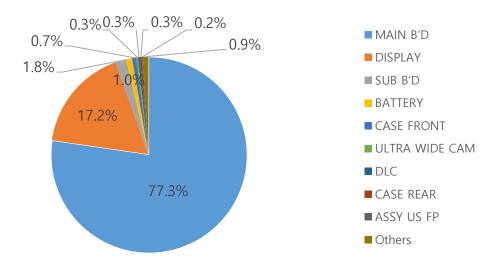


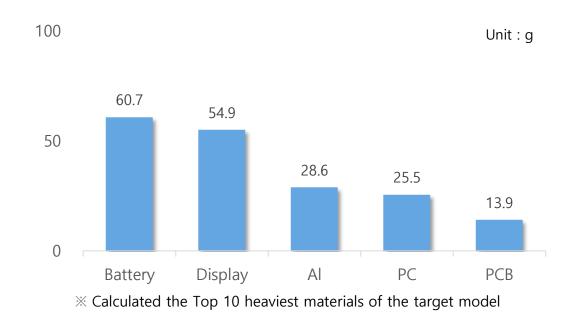
Model name	SM-A236V(Galaxy A23 5G)
Dimension	165.4 x 76.9 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc. : 216.19 g Packages : 55.69 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23 Ultra

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

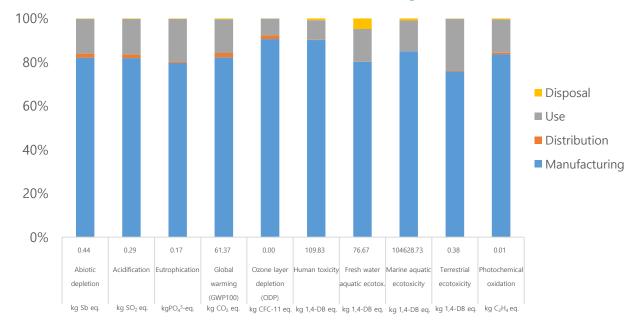
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

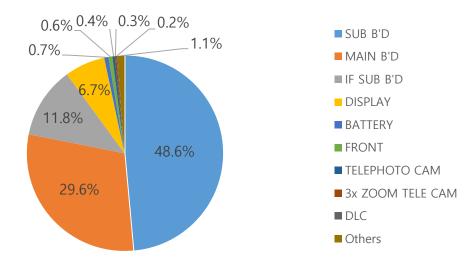


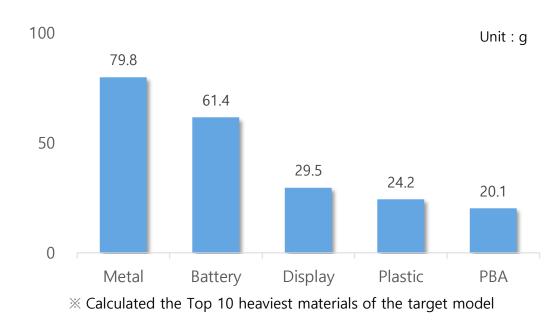
Model name	SM-S918B(Galaxy S23 Ultra)
Dimension	163.4 x 78.1 x 8.9 mm
Display	6.8" OLED
Weight	Product&Acc.: 253.99 g Packages: 128.15 g

# Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23 Ultra

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

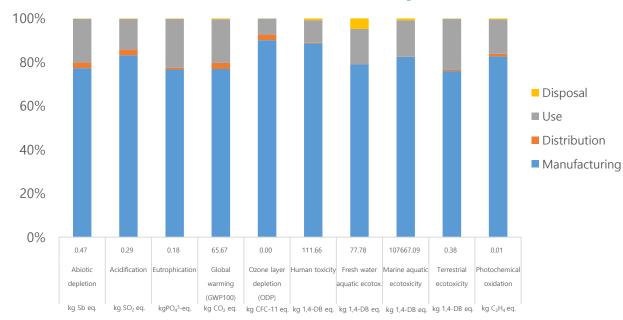
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

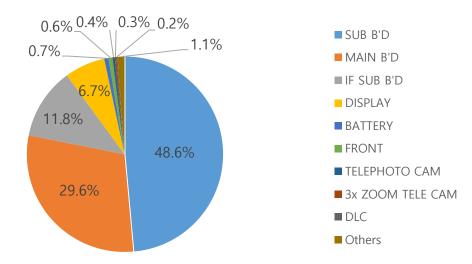


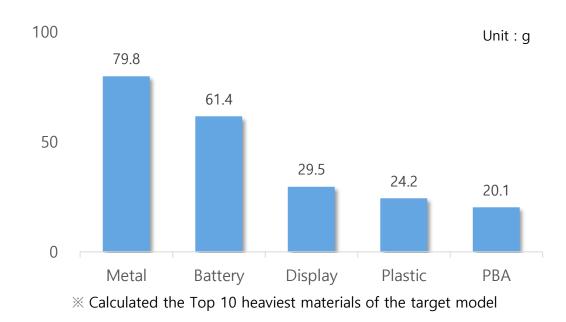
Model name	SM-S918U(Galaxy S23 Ultra)
Dimension	163.4 x 78.1 x 8.9 mm
Display	6.8" OLED
Weight	Product&Acc.: 253.99 g Packages : 128.15 g

# Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23+

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

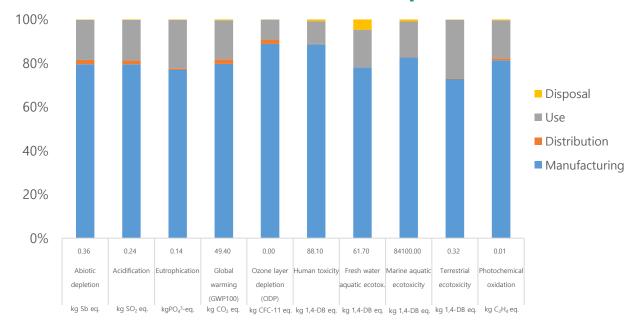
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

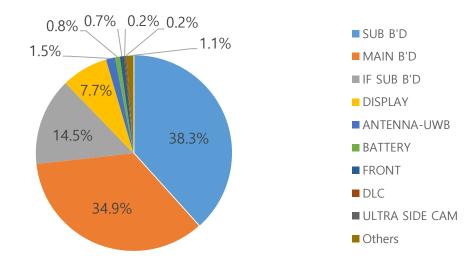


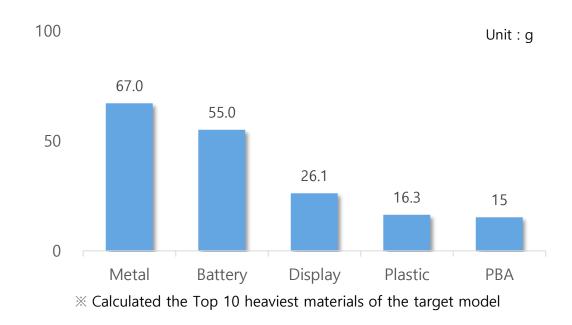
Model name	SM-S916B(Galaxy S23+)
Dimension	157.8 x 76.2 x 7.6 mm
Display	6.6" OLED
Weight	Product&Acc. : 206.16 g Packages : 123.99 g

## Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23+

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

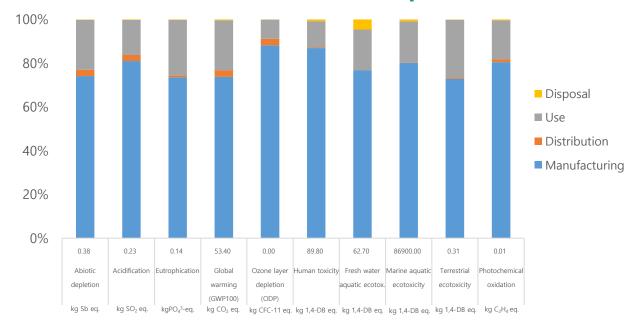
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Feb 28, 2023

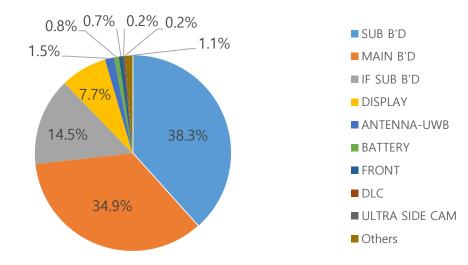


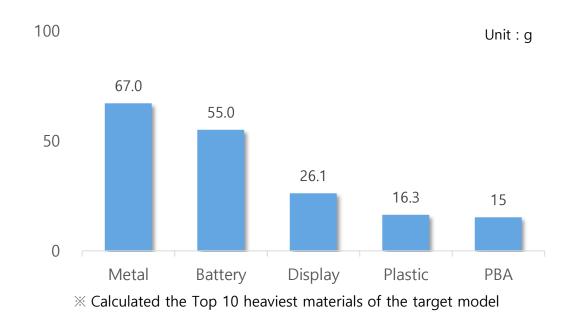
Model name	SM-S916U(Galaxy S23+)
Dimension	157.8 x 76.2 x 7.6 mm
Display	6.6" OLED
Weight	Product&Acc. : 206.16 g Packages : 123.99 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

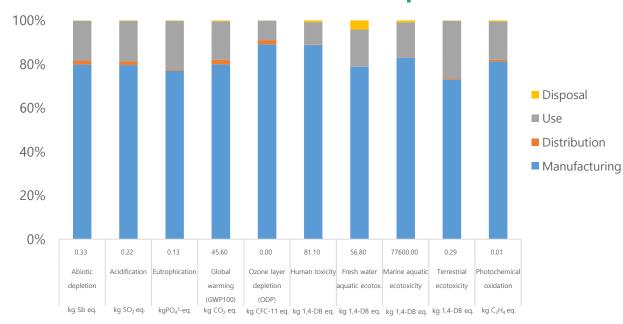
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to EU
Use	3 years use
Disposal	Waste treatment of parts and material

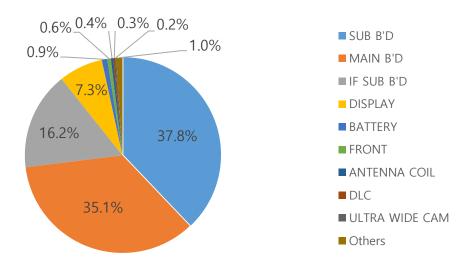


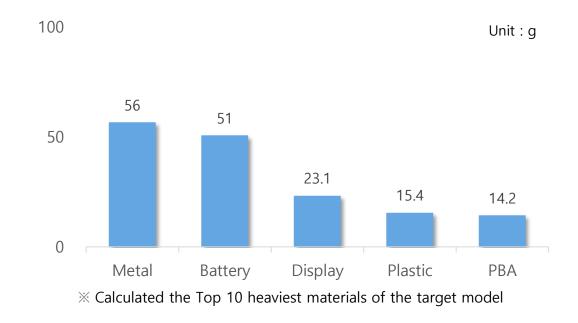
Model name	SM-S911B(Galaxy S23)
Dimension	146.3 x 70.9 x 7.6 mm
Display	6.1" OLED
Weight	Product&Acc.: 184.78 g Packages: 112.46 g

# Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S23

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

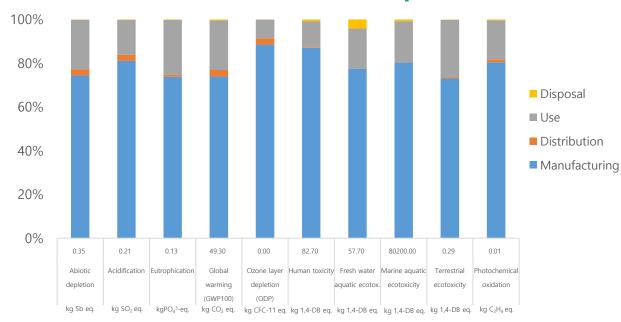
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Vietnam and KOR to US
Use	3 years use
Disposal	Waste treatment of parts and material

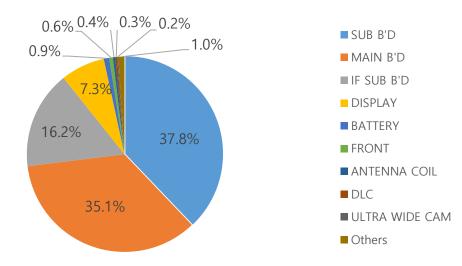


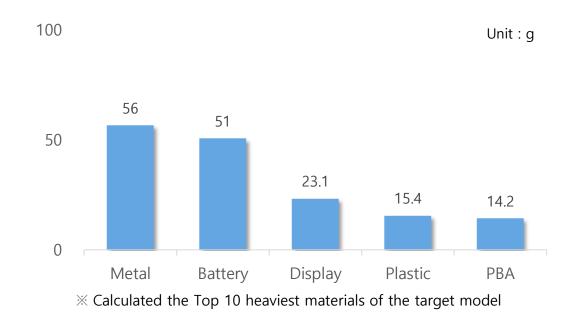
Model name	SM-S911U(Galaxy S23)
Dimension	146.3 x 70.9 x 7.6 mm
Display	6.1" OLED
Weight	Product&Acc. : 184.78 g Packages : 112.46 g

## Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy Z Fold4

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

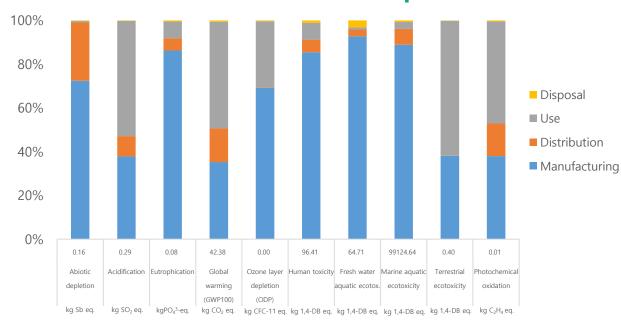
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

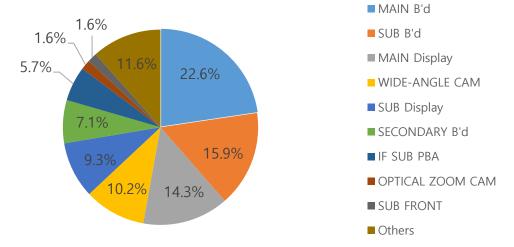


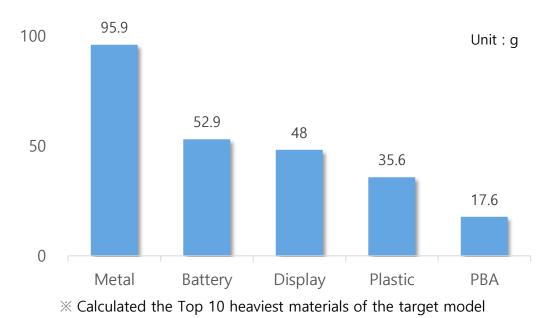
Model name	SM-F936U(Galaxy Z Fold4)
Dimension	155.1 x 130.1 x 6.3 mm
Display (Main / Sub)	OLED 7.6" / 6.2"
Weight	Product&Acc.: 284.72 g Packages: 189.03 g

# Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy Z Flip4

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

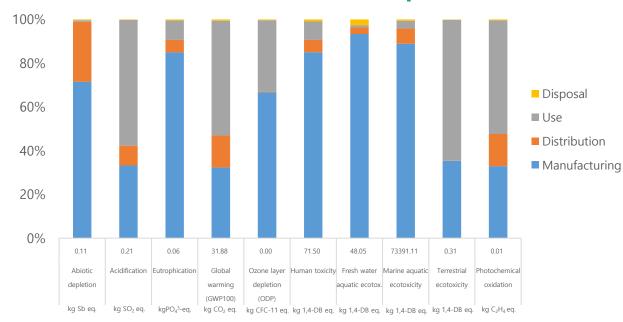
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

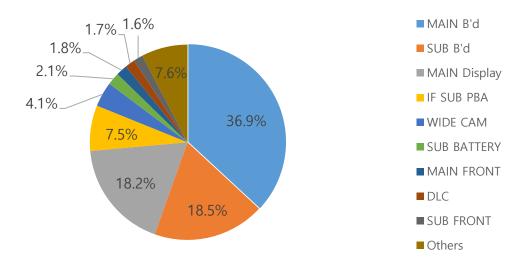


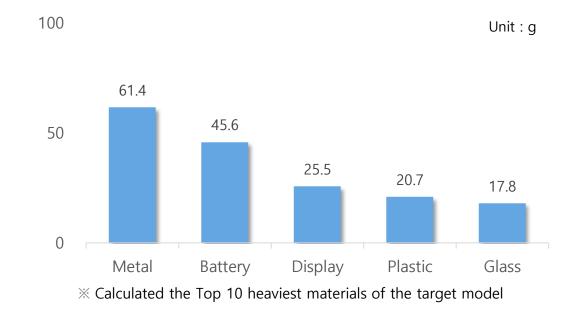
Model name	SM-F721U(Galaxy Z Flip4)
Dimension	165.2 x 71.9 x 6.9 mm
Display (Main / Sub)	OLED 6.7" / 1.9"
Weight	Product&Acc.: 208.72 g Packages: 132.34 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy XCover6 Pro

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

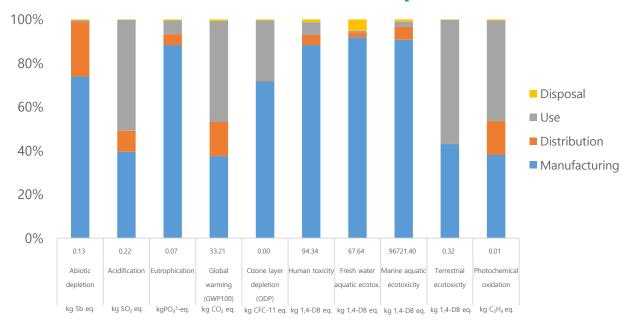
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

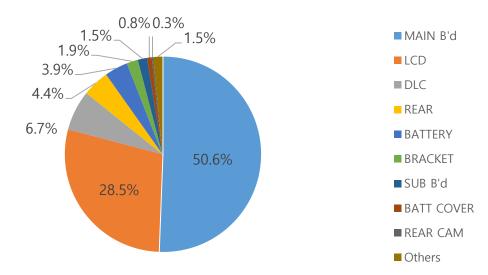


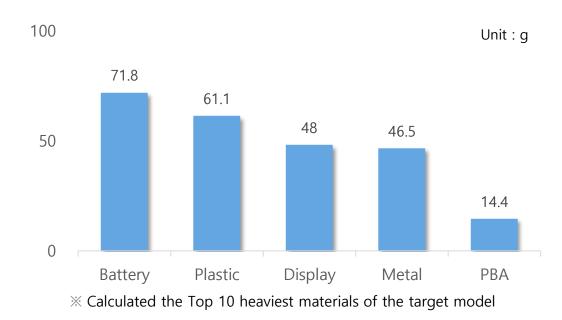
Model name	SM-G736U (Galaxy XCover6 Pro)
Dimension	168.8 x 79.9 x 9.9 mm
Display	6.6" LCD
Weight	Product&Acc. : 260.11 g Packages : 115.50 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy M13

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

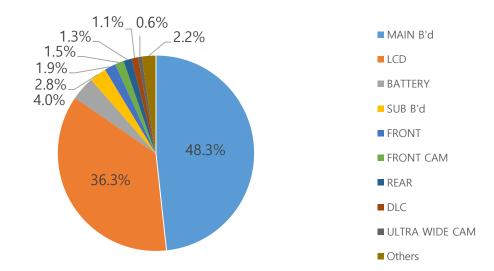


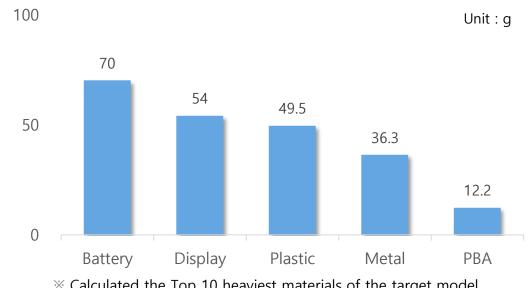
Model name	SM-M135F(Galaxy M13)
Dimension	165.4 x 76.9 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc. : 212.35 g Packages : 78.94 g

### Characterized Environment Impact



# Global Warming Impact Profile





X Calculated the Top 10 heaviest materials of the target model

# Life Cycle Assessment for Galaxy A73 5G

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

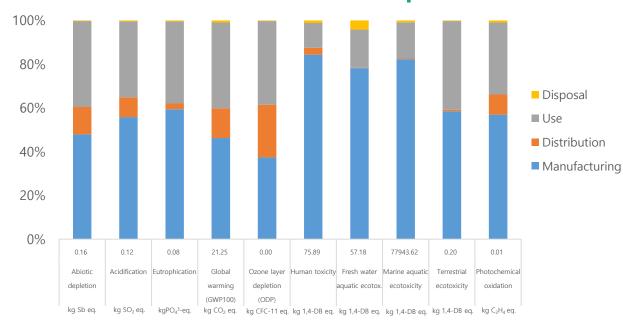
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

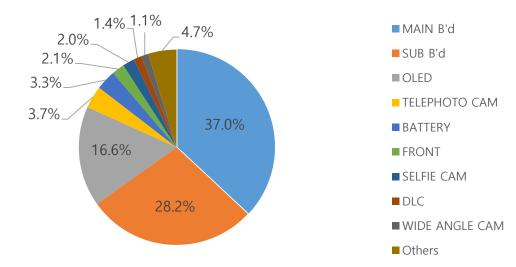


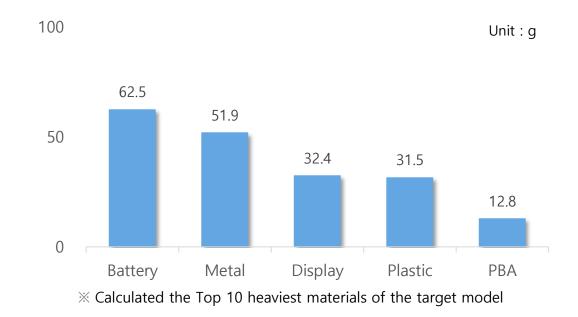
Model name	SM-A736B(Galaxy A73 5G)
Dimension	163.7 * 76.1 * 7.6 mm
Display	6.7" LCD
Weight	Product&Acc. : 205.15 g Packages : 121.67 g

# Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy A23

### Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

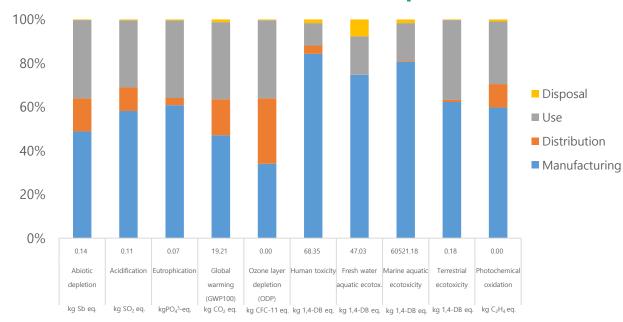
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

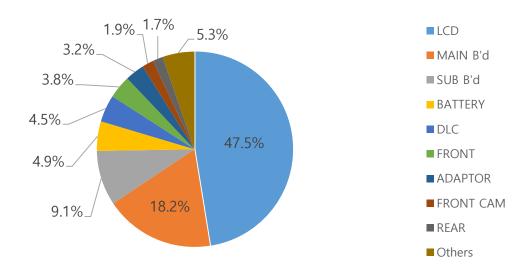


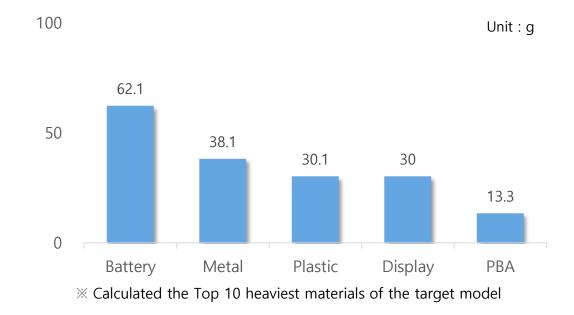
Model name	SM-A235F (Galaxy A23)
Dimension	165.4 * 76.9 * 8.4 mm
Display	6.6" LCD
Weight	Product&Acc. : 205.29 g Packages : 102.65 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy M53

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

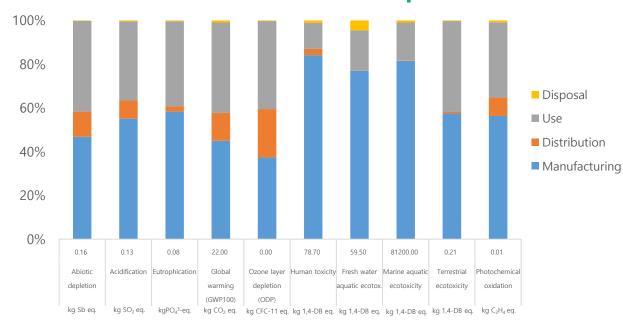
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

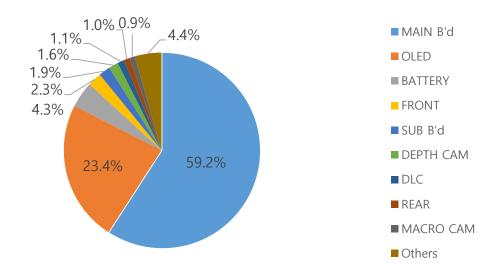


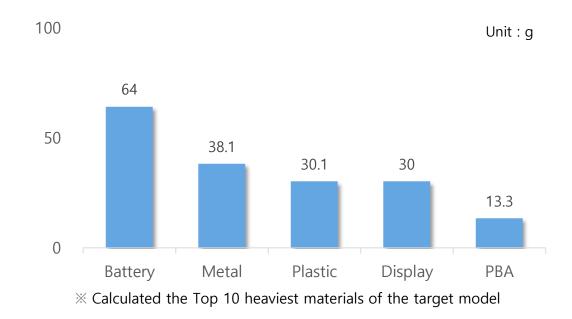
Model name	SM-M536B(Galaxy M53)
Dimension	169.5 x 77.0 x 7.4 mm
Display	6.7" OLED
Weight	Product&Acc. : 196.85 g Packages : 114.09 g

# Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy M33

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

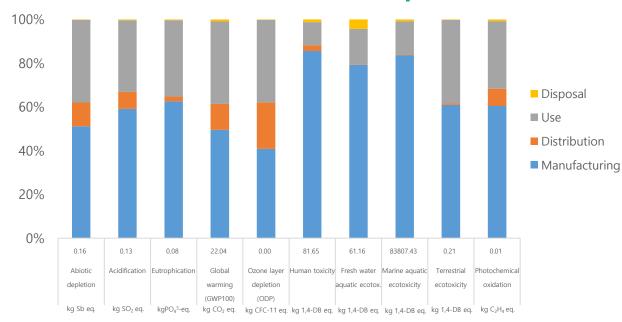
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

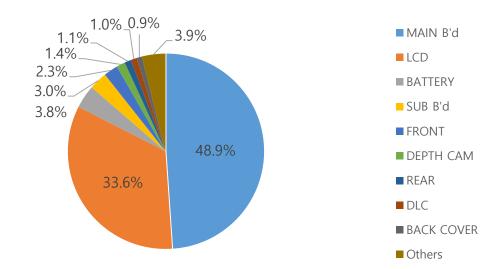


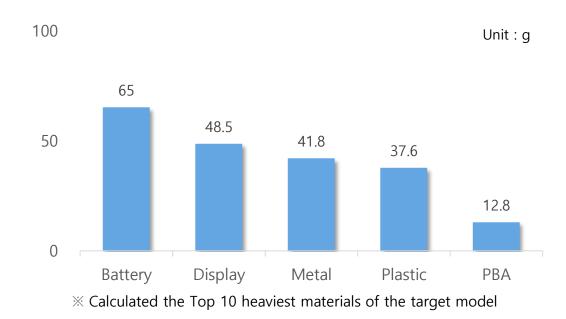
Model name	SM-M336B(Galaxy M33)
Dimension	165.4 x 76.9 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc.: 219.40 g Packages: 73.89 g

## Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy M23

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment consid ers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; a nd disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 s eries. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of ourproducts.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

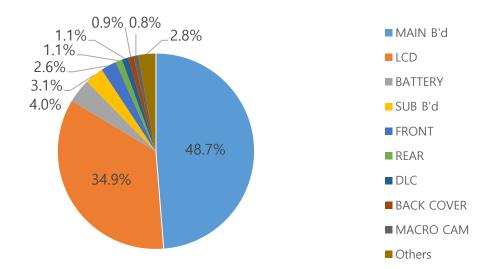


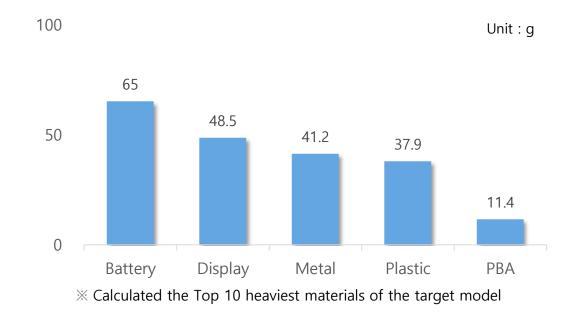
Model name	SM-M236B(Galaxy M23)
Dimension	167.2 x 77.0 x 8.4 mm
Display	6.6" LCD
Weight	Product&Acc.: 218.55 g Packages: 92.98 g

### Characterized Environment Impact



## Global Warming Impact Profile





# Life Cycle Assessment for Galaxy A13

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

#### Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

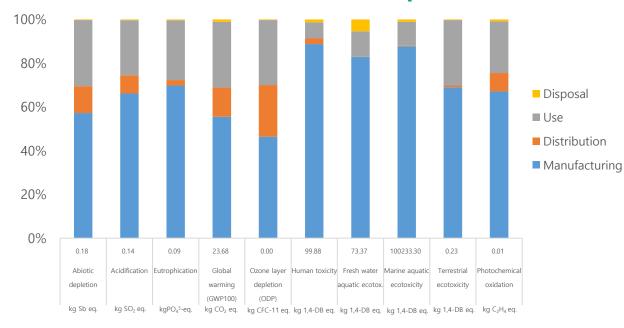
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	3 years use
Disposal	Waste treatment of parts and material

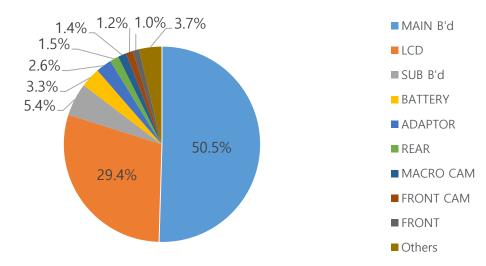


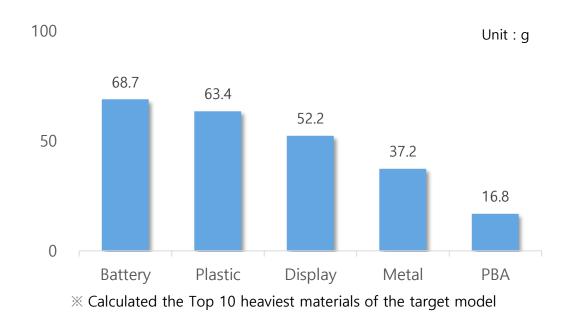
Model name	SM-A135F(Galaxy A13)
Dimension	165.1 x 76.4 x 8.8 mm
Display	6.6" LCD
Weight	Product&Acc. : 264.14 g Packages : 90.43 g

### Characterized Environment Impact



# Global Warming Impact Profile





# Life Cycle Assessment for Galaxy S22 Ultra

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact c ategories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact categor y has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspir e to improve the environmental specifications of our products.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

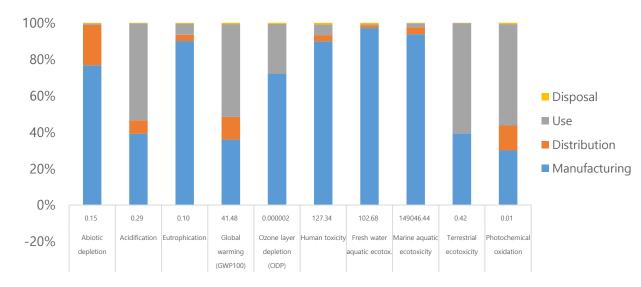
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

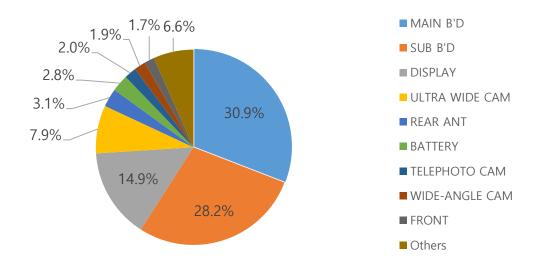


Model name	SM-S908U(Galaxy S22 Ultra)
Dimension	163.3 x 77.9 x 8.9 mm
Display	OLED 6.8"
Weight	Product & Acc.: 250.05 g Packages: 124.74 g

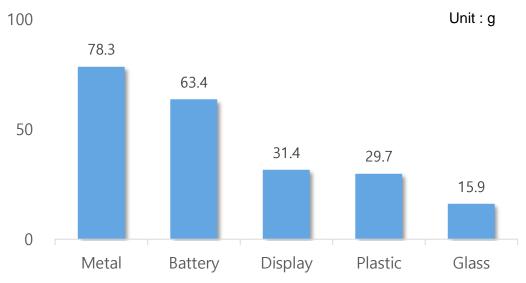
## Characterized Environment Impact



## Global Warming Impact Profile



## Top 5 Substances of Target model



X Calculated the Top 5 heaviest materials of the target model

# Life Cycle Assessment for Galaxy S22+

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact c ategories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact catego ry has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspi re to improve the environmental specifications of our products.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

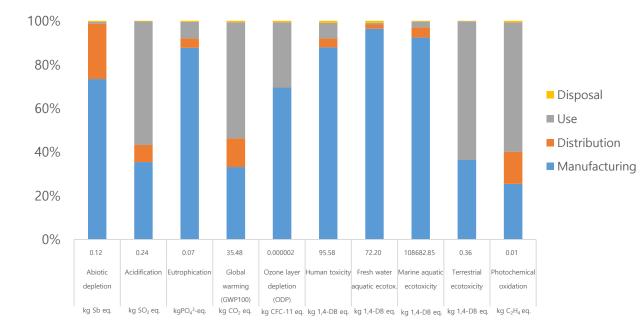
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

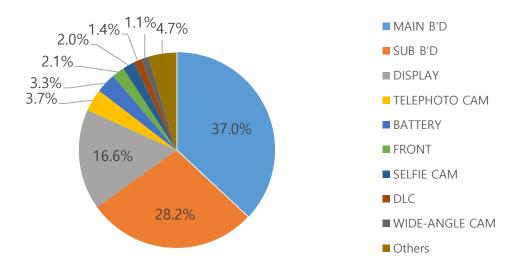


Model name	SM-S906U(Galaxy S22+)
Dimension	157.4 x 75.8 x 7.6 mm
Display	OLED 6.6"
Weight	Product & Acc.: 217.05 g Packages: 121.11 g

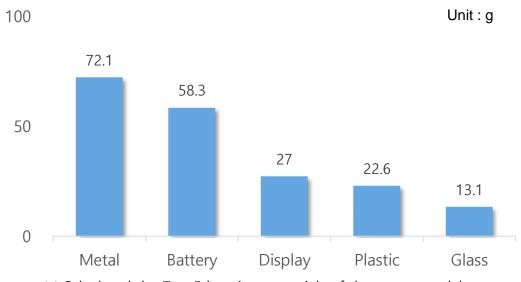
## Characterized Environment Impact



## Global Warming Impact Profile



## Top 5 Substances of Target model



\* Calculated the Top 5 heaviest materials of the target model

# Life Cycle Assessment for Galaxy S22

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its products. The assessment conside rs potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; an d disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 seri es. Samsung has used SimaPro 9.3.0.3 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life sc enario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact c ategories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact catego ry has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspi re to improve the environmental specifications of our products.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.8
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.3.0.3 LCA tool
LCA software	SimaPro 9.3.0.3

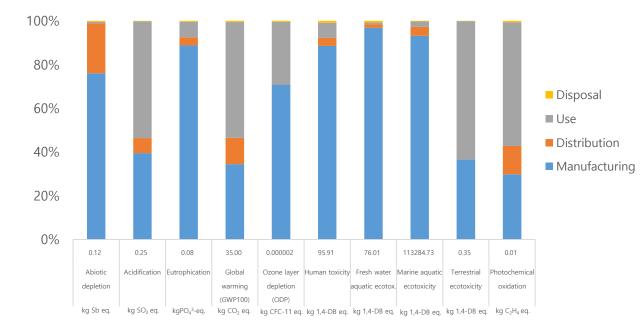
# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to United States
Use	3 years use
Disposal	Waste treatment of parts and material

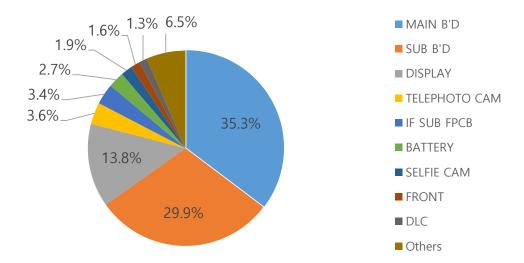


Model name	SM-S901U(Galaxy S22)
Dimension	146.0 x 70.6 x 7.6 mm
Display	OLED 6.1"
Weight	Product & Acc.: 189.17 g Packages: 116.91 g

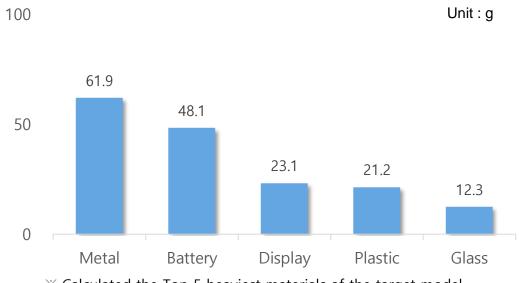
## Characterized Environment Impact



## Global Warming Impact Profile



## Top 5 Substances of Target model



# Life Cycle Assessment for Galaxy S21 FE

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

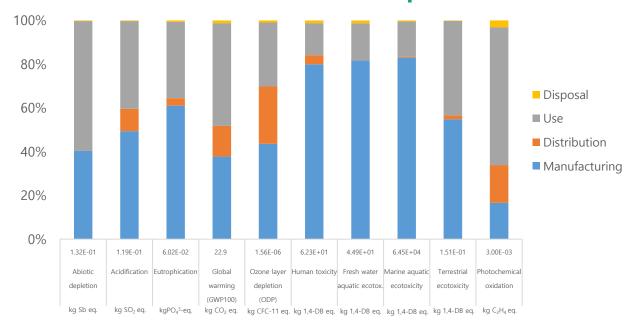
Critical review for LCA study was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)

LCA Report Issuance Date : Oct 29, 2021

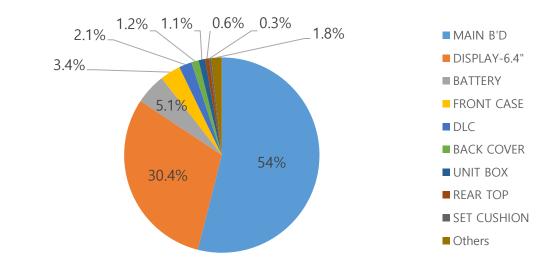


Model name	SM-G990B(Galaxy S21 FE)
Dimension	155.7 x 74.5 x 7.9 mm
Display	OLED 6.4"
Weight	Product&Acc.: 202.11 g Packages : 136.43 g

## Characterized Environment Impact

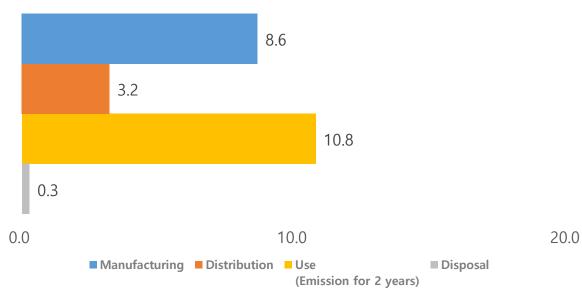


## Global Warming Impact Profile



# Life Cycle Carbon Emissions

Unit: kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy S20 FE

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material



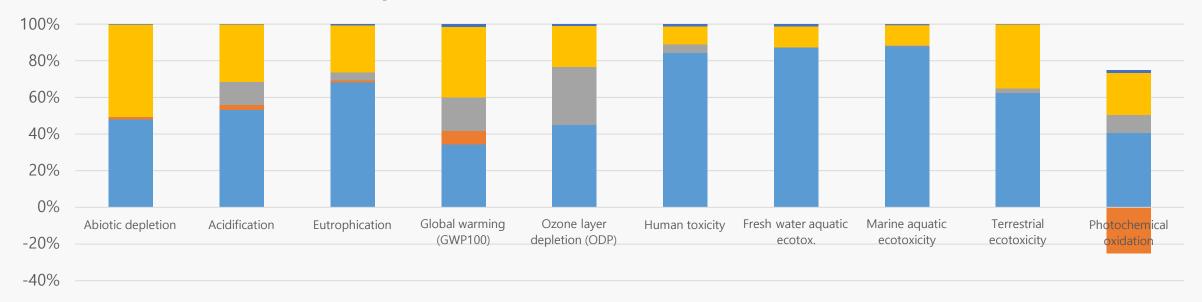
Model name	SM-G781B(Galaxy S20 FE)
Processor	Qualcomm, SM8250, 2.8GHz, 2.4GHz, 1.8GHz Octa-Core 64bit
Dimension	159.8 x 74.5 x 8.4 mm
Display	On-Cell Touch AMOLED, 6.5"
Memory	ROM 128GB, RAM 6GB
Battery	4370 mAh
Camera	Main: 12.0M pixel / Sub: 32.0M pixel
Weight	Product&Acc. : 253.74g / PKG : 229.66g

Pre-Manufacturing

## Numerical environmental impact

Impact category	Total	Unit	Pre-Manu facturing	Manu facturing	Distribution	Use	Disposal
Abiotic depletion	1.40E-01	kg Sb eq.	6.72E-02	1.62E-03	8.69E-06	7.03E-02	4.74E-04
Acidification	1.37E-01	kg SO₂eq.	7.29E-02	3.37E-03	1.74E-02	4.27E-02	3.07E-04
Eutrophication	7.30E-02	kgPO <sub>4</sub> <sup>3</sup> -eq.	4.98E-02	8.88E-04	2.97E-03	1.88E-02	5.15E-04
Global warming (GWP100)	2.50E+01	kg CO₂ eq.	8.63E+00	1.84E+00	4.58E+00	9.64E+00	3.56E-01
Ozone layer depletion (ODP)	1.83E-06	kg CFC-11 eq.	8.22E-07	5.08E-11	5.83E-07	4.08E-07	1.72E-08
Human toxicity	8.20E+01	kg 1,4-DB eq.	6.92E+01	7.81E-05	3.69E+00	8.14E+00	1.03E+00
Fresh water aquatic ecotox.	6.02E+01	kg 1,4-DB eq.	5.25E+01	1.59E-04	3.26E-02	6.81E+00	8.05E-01
Marine aquatic ecotoxicity	8.41E+04	kg 1,4-DB eq.	7.40E+04	1.33E-01	3.22E+02	9.33E+03	4.84E+02
Terrestrial ecotoxicity	1.67E-01	kg 1,4-DB eq.	1.04E-01	4.86E-06	3.99E-03	5.83E-02	4.36E-04
Photochemical oxidation	3.70E-03	kg C₂H₄eq.	3.03E-03	-1.88E-03	7.39E-04	1.69E-03	1.14E-04

## Characterized Environment Impact



■ Distribution Use

Disposal

Manufacturing

# Life Cycle Assessment for Galaxy Z Fold3

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

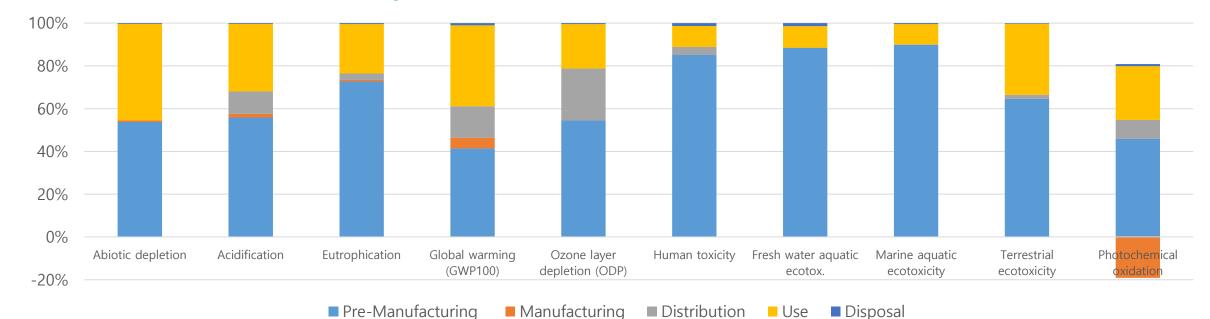
Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material



Model name	SM-F926B(Galaxy Z Fold3)
Processor	Qualcomm, SM8350, 2.84GHz,2.4GHz, 1.8GHz Octa-Core 64bit
Dimension	158.2 x 128.1 x 6.4 mm
Display	OLED 7.6" / 6.2"
Memory	ROM 256GB, RAM 12GB
Battery	4275 mAh
Camera	Main: 12.0M pixel / Sub: 4.0M pixel
Weight	Product&Acc. : 290.16g / PKG : 209.87g

## Numerical environmental impact

Impact category	Total	Unit	Pre-Manu facturing	Manu facturing	Distribution	Use	Disposal
Abiotic depletion	1.97E-01	kg Sb eq.	1.06E-01	1.42E-03	8.99E-06	8.92E-02	6.64E-04
Acidification	1.72E-01	kg SO₂ eq	9.58E-02	2.95E-03	1.80E-02	5.41E-02	6.35E-04
Eutrophication	1.03E-01	kg PO <sub>4</sub> ³-eq	7.51E-02	7.78E-04	3.08E-03	2.39E-02	4.95E-04
Global warming (GWP100)	3.23E+01	kg CO₂ eq	1.34E+01	1.61E+00	4.74E+00	1.22E+01	3.38E-01
Ozone layer depletion (ODP)	2.49E-06	kg CFC11 eq	1.36E-06	4.45E-11	6.03E-07	5.18E-07	1.18E-08
Human toxicity	1.05E+02	kg 1,4-DB eq	8.98E+01	6.84E-05	3.83E+00	1.03E+01	1.40E+00
Fresh water aquatic ecotox.	8.56E+01	kg 1,4-DB eq	7.57E+01	1.39E-04	3.38E-02	8.64E+00	1.20E+00
Marine aquatic ecotoxicity	1.25E+05	kg 1,4-DB eq	1.12E+05	1.17E-01	3.33E+02	1.18E+04	5.53E+02
Terrestrial ecotoxicity	2.22E-01	kg 1,4-DB eq	1.44E-01	4.26E-06	4.13E-03	7.39E-02	6.96E-04
Photochemical oxidation	5.27E-03	kg C₂H₄	3.92E-03	-1.64E-03	7.65E-04	2.15E-03	8.25E-05



# Life Cycle Assessment for Galaxy Z Flip3

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of ourproducts.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

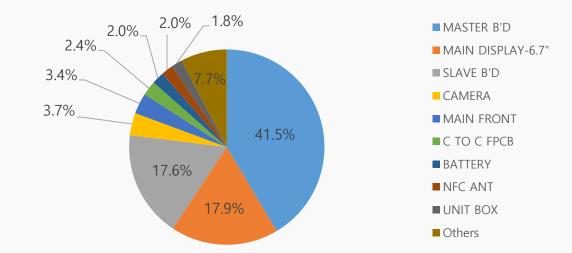


Model name	SM-F711B(Galaxy Z Flip3)
Dimension	166.0 x 72.2 x 6.9 mm
Display	OLED 6.7" / 1.9"
Weight	Product&Acc.: 209.49 g Packages : 142.25 g

## Characterized Environment Impact

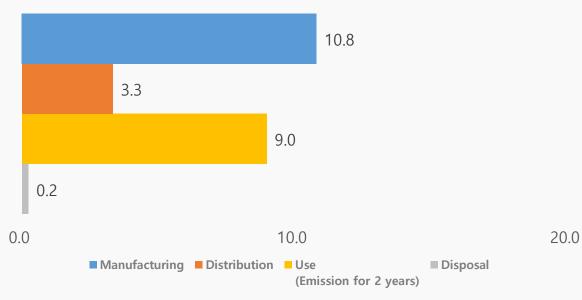


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy A12

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 140 40 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environmental specifications of our products.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation
Manufacturing	Product assembly by Samsung Electronics
Distribution	From Korea to EU
Use	2 years use
Disposal	Waste treatment of parts and material

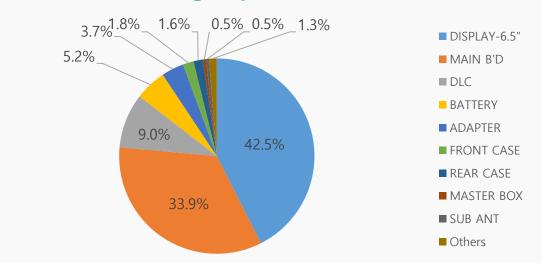


ı	Model name	SM-A127F(Galaxy A12)
ı	Dimension	164 × 75.8 × 8.9 mm
ı	Display	LCD 6.5"
	Weight	Product&Acc.: 268.45 g Packages : 93.77 g

# Characterized Environment Impact

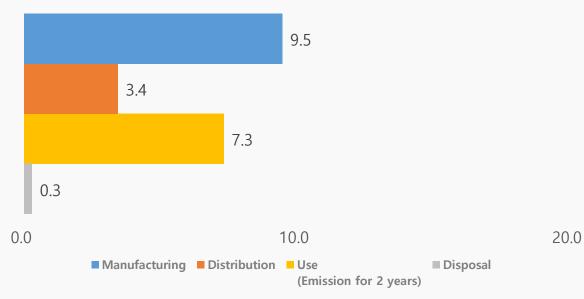


## Global Warming Impact Profile



## Life Cycle Carbon Emissions

Unit: kgCO2 eq.



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Galaxy Note20 Ultra

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase. To ensure technical quality; the analysis methodology has been completed according to international standard ISO 1404 0 series. Samsung has used SimaPro 9.1.1.1 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories including; Product bill of material(BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to attain the highest level of accuracy. The outcome of the LCA confirmed and quantified 10 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact cate gory has been assessed for each life cycle stage. These LCA results will continue to be considered during product development phase as we as pire to improve the environmental specifications of our products.

## Calculation basis

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 3.6
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2 baseline 2000 V2.05 / the Netherlands, 1997 as provided in the SimaPro 9.1.1.1 LCA tool
LCA software	SimaPro 9.1.1.1

# System boundary of LCA

Pre- manufacturing	Parts and materials constituting the products and its transportation	
Manufacturing	Product assembly by Samsung Electronics	
Distribution	From Korea to EU	
Use	2 years use	
Disposal	Waste treatment of parts and material	

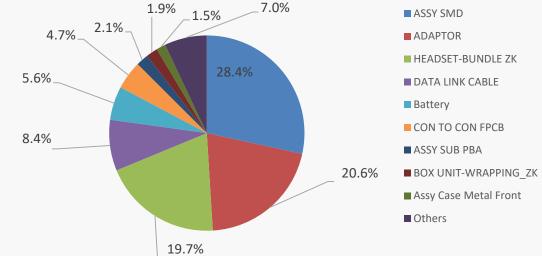


Model name	SM-N986B (Galaxy Note20 Ultra)
Processor	Octa-Core 3.09GHz,2.4GHz,1.8GHz
Dimension	164.8 x 77.2 x 8.1 mm
Display	OLED 6.9 "
Memory	ROM 256GB, RAM 12GB
Battery	4500 mAh
Camera	Main: 108M pixel / Sub: 10M pixel
Weight	Product&Acc. : 303.79g / PKG 252.14g

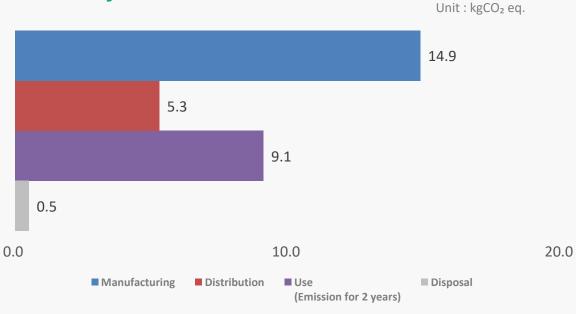
## Characterized Environment Impact



## Global Warming Impact Profile



# Life Cycle Carbon Emissions



<sup>\*</sup> The results differ from to region, But not by much.

# Life Cycle Assessment for Mobile Products

## Background

Samsung has developed strong technical experience in assessing the life cycle environmental impacts of its smart phones. The most recent life cycle assessment (LCA) has been for the Samsung Galaxy S6; Note5; J1x; On5x; Note8. The assessment considers potential environmental impacts across the whole life cycle including; pre-manufacturing; product manufacturing; distribution; product use; and disposal phase.

To ensure technical quality; the analysis methodology has been completed according to international standard ISO 14040 series. Samsung has

used Simapro7 software and a dedicated LCA S/W database to measure environmental impacts using a wide range of data categories includin g; Product bill of material (BOM), parts and components logistics, energy consumption in product use and end-of-life scenario data in order to at tain the highest level of accuracy. The outcome of the LCA confirmed and quantified 12 potential environment impact categories including; global warming; abiotic depletion; ocean acidification; eutrophication; and ozone layer depletion; where each impact category has been assessed for e ach life cycle stage. These LCA results will continue to be considered during product development phase as we aspire to improve the environm ental specifications of our products.

### **Calculation basis**

Standard	ISO 14040:2006 and 14044:2006
Database	Ecoinvent 2.2
Method for impact assessment	Life cycle impact assessment classification and characterization factors according to CML 2001 as provided in the SimaPro 7.1.5 LCA tool
LCA software	SimaPro 7.1.5

## System boundary of LCA

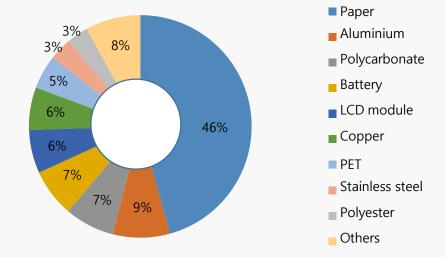
Pre- manufacturing	Parts and materials constituting the products and its transportation (from supplier to Samsung factory)
Manufacturing	Product assembly by Samsung Electronics (Data collection period : 3 months ahead of assessment)
Distribution From China or Vietnam to United States	
Usage	2 years use
Disposal	Waste treatment of parts and material

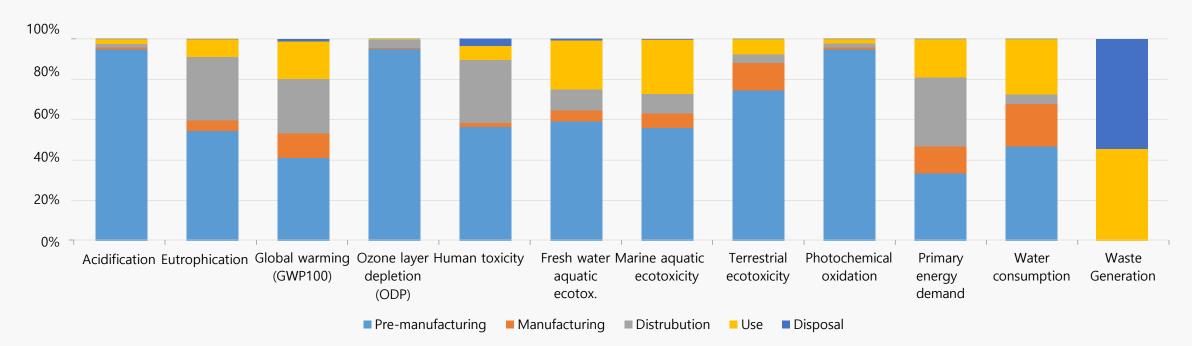
Critical review for Galaxy S6 LCA study was done by an expert from Korean Society for Life Cycle Assessment. (kslca@naver.com) For the rest, it was done by internal expert in Global CS Center of Samsung Electronics. (ecodesign@samsung.com)



Wt.(g)	186.34g
Camera	12 MP / 5MP
Battery	Li-Ion 3300 mAh
Display	6.3" 2960 x 1440, 16M In-Cell Touch LCD
Dimension	162.5 x 74.8 x 8.6 mm
Processor	Qualcomm 2.35GHz, 1.9GHz Octa-Core 64bit
Model name	SM-N950U (Galaxy Note8)

### Material Use

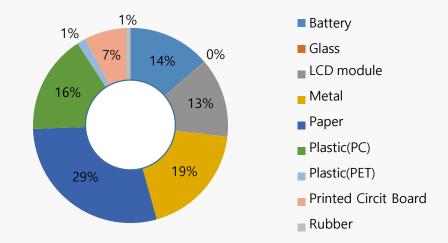


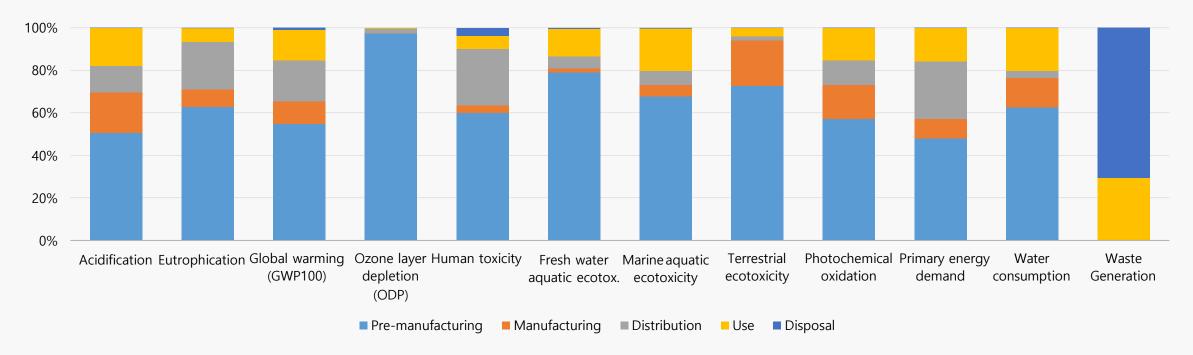




Model name	SM-G5510 (Galaxy On5x)
Processor	Quad-Core1.4GHz
Dimension	142.8 x 69.5 x 8.1 mm
Display	LCD 5"
Battery	Li-Ion 2600 mAh
Camera	12 MP / 5MP
Wt.(g)	149 g

### Material Use

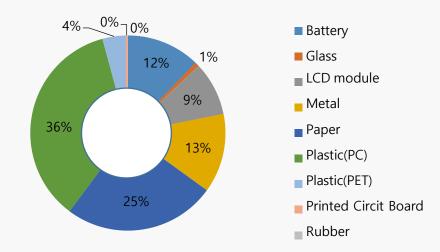


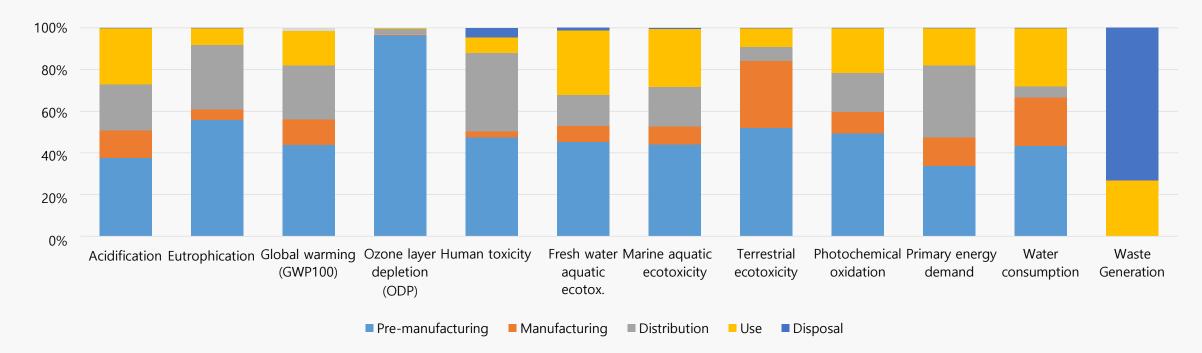




Model name	SM-J120A (Galaxy J1x)
Processor	Quad-core 1.2 GHz
Dimension	132.6 x 69.3 x 8.9 mm
Display	AMOLED 4.5"
Memory	microSD, up to 128 GB
Battery	Li-Ion 2050 mAh
Camera	5 MP
Wt.(g)	132 g

## Material Use

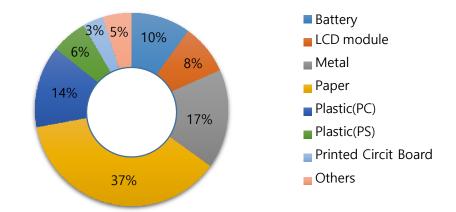


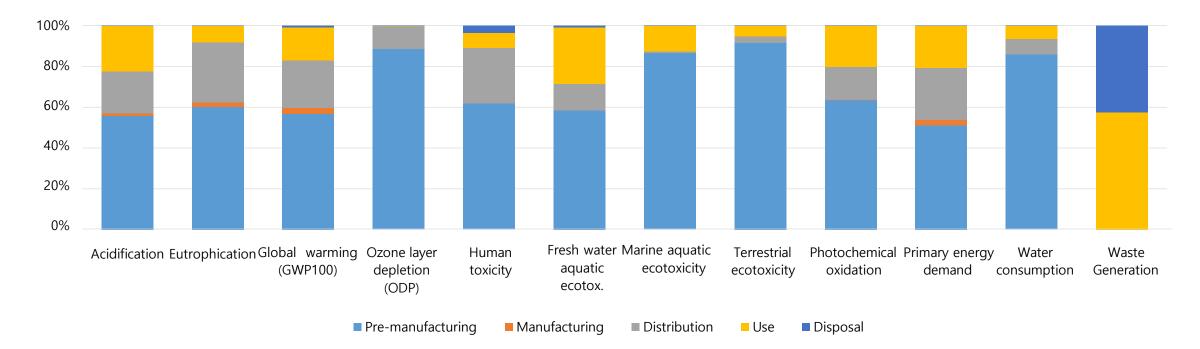




Model name	SM-N920V (Galaxy Note5)
Processor	Octa-Core 2.1GHz, 1.5GHz
Dimension	153.2 x 76.2 x 7.62 mm
Display	Super AMOLED 5.7"
Memory	32GB, 4GB RAM
Battery	3000mAh
Camera	Main: 16M pixel / Front: 5M pixel
Wt.(g)	Product: 192g / Packaging 259 g

### Material Use







Model name	SM-G920V (Galaxy S6)
Processor	Octa-Core 2.1GHz, 1.5GHz
Dimension	143.4 x 70.5 x 6.8 mm
Display	Super AMOLED 5.1 "
Memory	32GB
Battery	2550mAh
Camera	Main: 16M pixel / Front: 5M pixel
Wt.(g)	Product : 138g / Packaging 261 g

#### Material Use

