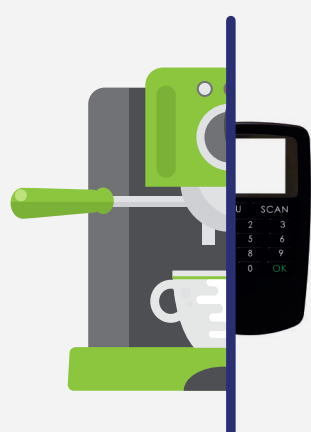


“I used to be a coffee machine”

The outer case of this authentication device is recycled plastic made from discarded kitchen appliances. Recycling reduces plastic leakage to both our land and water ecosystems and is an important step in fighting plastic pollution. As additional benefits, in the production of 1 million cases* we estimate the reduction of:



25 tonnes of virgin ABS are saved by using recycled plastic, which helps avoid the extraction and overconsumption of fossil and mineral resources.

Using recycled ABS plastics reduces **half of the greenhouse gas emissions**** of the entire outer case of the device compared to virgin ABS.

104 tonnes of carbon emissions are saved, equivalent to driving a car **10 times** around the Earth.

— Every material deserves a *second life.* —

We are pioneers in recycling ABS*** using new technology and a circular design mind-set. This creates a whole new world of opportunities for hard to recycle plastics such as ABS.



Black is the new green.

It is recommended to keep the resulting black colour of the recycling process to avoid additional impact of materials, processes and energy needed to change the colour of the plastic.



— Big actions — go beyond the surface.

The new device case is the first step of continuous improvements that will reduce the environmental impact of the authentication device in the transition towards a full circular economy. In the meantime, the rest of the emissions are being offset using CarbonNeutral® to achieve net zero carbon footprint for each produced device.



Source: Thales authentication device Life Cycle Assessment conducted by Quantis, 2020

* The total global production of authentication devices is approx. 30.000.000 units per year.
 ** Using recycled ABS for the outer case, the emissions are reduced to represent 3% of the total carbon footprint of the device. Additional carbon offsetting is done to achieve net zero carbon footprint for each produced device.
 *** ABS or Acrylonitrile Butadiene Styrene is a common thermoplastic polymer typically used for injection moulding applications. Some common uses for the ABS include printers, vacuum cleaners, kitchen appliances, and plastic toys.