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Customizing Service

I Our acrylic resins have a wide range of molecular weight (Mw).

The higher the inherent viscosity, the higher the molecular weight.

: Mw 20,000~200,000

• We can change glass transition temperature (Tg) to improve hardness and flexibility.

: Tg 35℃~120℃

• We can change acid value (A.V) to improve adhesion and dispersion of colorants.

: A.V 0~200 mg KOH/g

Application

I Inks



Acrylic Coating Resin



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Introduction of LX MMA

LX MMA was established in 1991 as a joint venture of LG Chemicals, Japan's Sumitomo Chemicals and Japan Catalyst. In 1993 LX MMA completed construction of its first MMA plant, took over the PMMA business from LG Chemicals in 1999, completed its 2nd MMA plant in 2003 and 2nd PMMA plant in 2005. In addition, the company completed its 3rd MMA plant in 2008 and started producing 180,000 tons of MMA and 123,000 tons of PMMA, becoming the number one domestic supplier and emerging as a world-class MMA producer.

As a leader of the domestic PMMA industry LX MMA has integrated production facilities from MMA to PMMA and also maintains a technological service system capable of responding immediately to customer needs.

Product Information

With its unique polymerization technology, LX MMA Corp. produces acrylic coating resin used for artificial marbles, acryl coatings, acrylic adhesives and paints.

Our acrylic resins are soluble in many solvents commonly used in formulating lacquers, adhesives, inks and related products. Ketones, esters and the lower boiling aromatics are practical solvents for all grades. We can provide products tailored to the needs of individual customers.

I Features of our products

- Extreme weather resistance & durability
- Optical quality & gloss
- Large range of solubility
- Good pigment dispersion

I Product appearance

• Solid, Bead polymer (average particle size : 200~300µm)



Properties of products

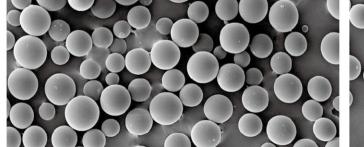
| Grade | | Тур | Typical Properties ¹¹ | | | | | Viscosit | y in Various S | olvents ²⁾ | | | | |
|-------|---------------------|-----|----------------------------------|-----|---------|----------|-------------------|-------------------|----------------------|-----------------------|-------------------|-------------------|-------------------|--|
| | Base Composition | Tg | | A.V | Alc | ohol | Acetate | | | Aromatic | | Ketone | | Comments/Application |
| | | | Mw | | Ethanol | Methanol | Methyl Acetate | Ethyl Acetate | Isopropyl Acetate | Toluene | Xylene | Acetone | MEK | |
| BA030 | MMA/EA | 38 | 80,000 | 2 | I.S. | I.S. | 100 ³⁰ | 105 ³⁰ | 810 | 700 | 170 ³⁰ | 250 | 260 | General purpose. Very soft - Gravure ink, Industrial paint |
| BN070 | мма/вма | 50 | 140,000 | <1 | I.S. | I.S. | - | - | 1,900 | 830 | 1,220 | - | 490 | Road marking, Excellent adhesion |
| BA122 | мма/вма | 60 | 60,000 | 4 | I.S. | I.S. | 290 | 410 | 610 | 310 | 480 | 150 | 140 | General purpose grade. Fast solvent release. Acid value increases adhesion and pigment dispersion - Gravure ink, Printing ink, Marine & container coating, Road marking paint concrete & metal coating |
| BA123 | мма/вма | 60 | 60,000 | 3.5 | I.S. | I.S. | 300 | 410 | 660 | 350 | 555 | 150 | 140 | General purpose grade. Higher viscosity than BA122 - Gravure ink, Printing ink, Marine & container coating, Road marking paint concrete & metal coating |
| BA124 | MMA/BMA | 61 | 60,000 | 8 | I.S. | I.S. | 230 | 270 | - | 465 | 635 | 100 | 105 | Road marking, Fast solvent release, Excellent adhesion |
| BA126 | MMA/BMA | 58 | 50,000 | 9.5 | I.S. | I.S. | 170 | 180 | 230 | 450 | 630 | 80 | 90 | Road marking, Fast solvent release, Excellent adhesion |
| BA140 | MMA/EA | 55 | 100,000 | 3.5 | I.S. | I.S. | 170 ³⁰ | 2,340 | 330 ³⁰ | 2,300 | 75 ²⁰ | 490 | 610 | Very good for concrete coating - Clear coating of interior & exterior concrete floors & drive way |
| BA141 | мма/вма | 55 | 100,000 | 3 | I.S. | I.S. | 100 ³⁰ | 1,150 | 190 ³⁰ | 830 | 1,400 | 360 | 350 | Lower viscosity than BA140 Clear coating of interior & exterior concrete floors & drive way |
| BA410 | ММА/ВМА | 80 | 40,000 | 3.5 | I.S. | I.S. | 315 | 445 | 790 | 340 | 600 | 160 | 160 | Harder and lower Mw than BA123. Fast dry - Concrete sealer, Traffic paint, Gravure ink, Clear finishes for furniture plastics |
| BA525 | MMA/EA | 90 | 70,000 | 16 | I.S. | I.S. | 200 ³⁰ | 280 ³⁰ | 560 | 130 ²⁰ | P.S. | 970 | 1,050 | Low profile additive for SMC/BMC |
| BA531 | ММА | 105 | 100,000 | 2 | I.S. | I.S. | 770 ³⁰ | 80 ²⁰ | 3,130 ³⁰ | 8,500 | 90 ²⁰ | 7,280 | 330 ³⁰ | Hard coating resin with excellent durability and weather resistance - Protective coating for gravure ink |
| BA611 | ММА | 105 | 40,000 | 2 | I.S. | I.S. | 110 ³⁰ | 1,600 | 360 ³⁰ | 1,070 | 50 ²⁰ | 530 | 520 | General purpose hard resin having improved solubility - Paint, Gravure ink, off-set ink, Calendaring varnish, PVC /ASA modifier |
| BN600 | ММА | 101 | 20,000 | <1 | I.S. | I.S. | 170 | 240 | 440 | 210 | 70 ³⁰ | 80 | 95 | Excellent flowabilty with good hardness - Additive for reactive syrup, Modifier for various thermoplastic polymers |
| BN640 | ММА | 105 | 100,000 | <1 | I.S. | I.S. | - | - | - | - | 1-1 | 1- | 450 ³⁰ | General purpose hard coating resin - Plastic coating, Protective coating |
| BA720 | ММА | 116 | 50,000 | 2 | I.S. | I.S. | 270 ³⁰ | 440 ³⁰ | 1,460 ³⁰ | 2,430 | 65 ²⁰ | 155 ³⁰ | 2,130 | The hardest coating resin with low Mw - Protective coating for gravure ink, Plastic coating |
| BA840 | ММА | 120 | 120,000 | 2 | - | - | - | - | - | ı - | - | - | - | Top coating, Hard resin, Excellent chemical resistance and weatherability |

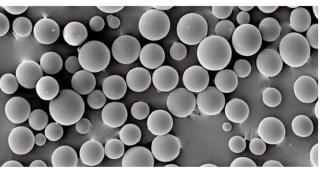
Typical Properties¹⁾

- Tg: Glass transition temperature (°C)
- Mw : Molecular weight (g/mol)
- A.V : Acid value (mg KOH/g)

Viscosity in Various Solvents²⁾

- Values are Brookfield viscosity (cP), at 23°C of a 40% solids solution, except as noted
- Superscript indicates % solids
- I.S. : Insoluble P.S. : Partially soluble (Test Method : Solubility 20wt% resin at room temperature)





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