

Customizing Service

- 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°C~120°C
- We can change acid value (A.V) to improve adhesion and dispersion of colorants.
: A.V 0~200 mg KOH/g



Application

- Inks
- Plastic coatings
- Concrete coatings
- Road markings
- Marine & container paints



Acrylic Coating Resin



Seoul office MMA Sales Team 98, Huam-ro, Jung-gu, Seoul, 04637, Korea / TEL : +82-2-6930-3896 / FAX : +82-2-6930-3802

www.lxmma.com
March 2022





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 : 200~300 μ m)



Properties of products

Grade	Base Composition	Typical Properties ¹⁾			Viscosity in Various Solvents ²⁾									Comments/Application
		Tg	Mw	A.V	Alcohol		Alcohol			Aromatic		Ketone		
					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	MMA/BMA	50	140,000	<1	I.S.	I.S.	-	-	1,900	830	1,220	-	490	Road marking, Excellent adhesion
BA122	MMA/BMA	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	MMA/BMA	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	MMA/BMA	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	MMA/BMA	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	MMA	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	MMA	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	MMA	101	20,000	<1	I.S.	I.S.	170	240	440	210	70 ³⁰	80	95	Excellent flowability with good hardness - Additive for reactive syrup, Modifier for various thermoplastic polymers
BN640	MMA	105	100,000	<1	I.S.	I.S.	-	-	-	-	-	-	450 ³⁰	General purpose hard coating resin - Plastic coating, Protective coating
BA720	MMA	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	MMA	120	120,000	2	-	-	-	-	-	-	-	-	-	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)

