

BN600 100% Solid Grade Thermoplastic Acrylic Resin

Introduction

LG MMA Corp. produces a wide range of acrylic coating resins based on its unique polymerization technology.

LG MMA's BN600 is a methacrylic resin with extremely high hardness, as well as excellent durability, weathering resistance, adhesion, pigment dispersion and scratch resistance.

BN600 is a product with low molecular weight well suited for paints, inks and calendaring varnish.

Typical Application

- Paints
- Inks
- Calendaring varnishes

Physical Properties

Appearance	Powder
Solid content, mass %	100
Molecular weight (Mw, ave.)	20,000
Density @ 25°C, kg/liter	1.20
Brookfield viscosity at 23°C, cPs (40% solution in MEK)	95
Glass transition temperature (°C)	101
Acid value (mg KOH/g)	<1

REMARKS : The listed values should be used for reference purpose only.

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Resins Viscosity in Various Solvents

Grade	Alcohol				Ester			Hydrocarbon		Ketone	
	Methanol	Ethanol	IPA	Butanol	Methyl Acetate	Ethyl Acetate	Isopropyl Acetate	Toluene	Xylene	Acetone	MEK
BA030	Insoluble	Insoluble	Insoluble	Insoluble	100 ³⁰	105 ³⁰	810	700	170 ³⁰	250	260
BA122	Insoluble	Insoluble	Insoluble	P.S.	290	410	610	310	480	150	140
BA123	Insoluble	Insoluble	Insoluble	P.S.	300	410	660	350	555	150	140
BA124	Insoluble	Insoluble	Insoluble	P.S.	230	270	-	465	635	100	105
BA140	Insoluble	Insoluble	Insoluble	Insoluble	170 ³⁰	2,340	330 ³⁰	2,300	75 ²⁰	490	610
BA141	Insoluble	Insoluble	Insoluble	Insoluble	100 ³⁰	1,150	190 ³⁰	830	1,400	360	350
BA410	Insoluble	Insoluble	Insoluble	Insoluble	315	445	790	340	600	160	160
BA525	Insoluble	Insoluble	Insoluble	Insoluble	200 ³⁰	280 ³⁰	560	130 ²⁰	P.S.	970	1,050
BA531	Insoluble	Insoluble	Insoluble	Insoluble	770 ³⁰	80 ²⁰	3,130 ³⁰	8,500	90 ²⁰	7,280	6,600
BA611	Insoluble	Insoluble	Insoluble	Insoluble	110 ³⁰	1,600	360 ³⁰	1,070	50 ²⁰	530	520
BA720	Insoluble	Insoluble	Insoluble	Insoluble	270 ³⁰	440 ³⁰	1,460 ³⁰	2,430	65 ²⁰	155 ³⁰	2,130
BN720	Insoluble	Insoluble	Insoluble	Insoluble	220 ³⁰	380 ³⁰	-	2,300	63 ²⁰	140 ³⁰	1,780
BN600	Insoluble	Insoluble	Insoluble	Insoluble	170	240	440	210	70³⁰	80	95

- 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)

Safe Handling Information

LG MMA Material Safety Data Sheet contain pertinent information that you need to protect your employees and customers against any known health and safety hazards associated with our products.