

# BA124 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 BA124 is 100% solid acrylic bead resins designed as coating materials to protect the surface of concrete, metal and plastic.

When BA124 is dissolved in an appropriate solvent, it shows quick natural drying to form a transparent film that protects the floor surface and color.

BA124 is a product appropriate for concrete floor, gravure printing ink, ABS, polystyrene coating and other general uses.

## Typical Application

- Concrete sealer
- Traffic paint
- Gravure printing inks
- Protective coating for plastics
- General metal protective and decorative coatings

## Physical Properties

Appearance	Powder
Solid content, mass %	100
Molecular weight (Mw, ave.)	60,000
Density @ 25°C, kg/liter	1.11
Brookfield viscosity at 23°C, cPs (40% solution in MEK)	105
Glass transition temperature (°C)	61
Acid value (mg KOH/g)	8

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

# BA124 100% Solid Grade Thermoplastic Acrylic Resin

## 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 <sup>30</sup>	105 <sup>30</sup>	<b>810</b>	700	170 <sup>30</sup>	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
<b>BA124</b>	<b>Insoluble</b>	<b>Insoluble</b>	<b>Insoluble</b>	<b>P.S.</b>	<b>230</b>	<b>270</b>	<b>-</b>	<b>465</b>	<b>635</b>	<b>100</b>	<b>105</b>
BA140	Insoluble	Insoluble	Insoluble	Insoluble	170 <sup>30</sup>	2,340	330 <sup>30</sup>	2,300	75 <sup>20</sup>	490	610
BA141	Insoluble	Insoluble	Insoluble	Insoluble	100 <sup>30</sup>	1,150	190 <sup>30</sup>	830	1,400	360	350
BA410	Insoluble	Insoluble	Insoluble	Insoluble	315	445	790	340	600	160	160
BA525	Insoluble	Insoluble	Insoluble	Insoluble	200 <sup>30</sup>	280 <sup>30</sup>	560	130 <sup>20</sup>	P.S.	970	1,050
BA531	Insoluble	Insoluble	Insoluble	Insoluble	770 <sup>30</sup>	80 <sup>20</sup>	3,130 <sup>30</sup>	8,500	90 <sup>20</sup>	7,280	6,600
BA611	Insoluble	Insoluble	Insoluble	Insoluble	110 <sup>30</sup>	1,600	360 <sup>30</sup>	1,070	50 <sup>20</sup>	530	520
BA720	Insoluble	Insoluble	Insoluble	Insoluble	270 <sup>30</sup>	440 <sup>30</sup>	1,460 <sup>30</sup>	2,430	65 <sup>20</sup>	155 <sup>30</sup>	2,130
BN720	Insoluble	Insoluble	Insoluble	Insoluble	220 <sup>30</sup>	380 <sup>30</sup>	-	2,300	63 <sup>20</sup>	140 <sup>30</sup>	1,780
BN600	Insoluble	Insoluble	Insoluble	Insoluble	170	240	440	210	70 <sup>30</sup>	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.