

Paste Resins

LG Paste resins, well-known as superior quality and a variety of the grades, are produced through one of two processes : Emulsion or Microsuspension process. The resins are specially designed to be the best suited to the diverse processing methods used, each of which requires a different combination of such properties as rheology, plastisol viscosity, aging, foaming, gelation, thermal stability, clarity, etc..



Property	Degree of Polymerization	K-Value	Apparent Bulk Density	Volatiles	DOP	Brookfield Viscosity	Severs Viscosity	VAc Contents	Features	Applications	Grades
Unit			g/cm ³	%	(phr)	cps(6rpm)	g/sec(4bar)	%			
Test Method	JIS K6721-77	DIN 53726	ASTM D1895-90	ASTM D3030-95		ASTM D1824-90	ASTM A1823-90				

Emulsion Resins*

LP090	950±50	64	0.35±0.05	Max. 1.5	60	4500±2000	Min. 1.0	-	Low paste viscosity, Excellent foam properties, Low aging plastisol	Wall coverings, Foam layer for flooring, Synthetic Leather	LP090
LP170	1550±50	74	0.34±0.05	Max. 1.5	60	5500±2000	Min. 1.0	-	Excellent foam properties, Good mechanical properties	Rotational molding, Synthetic leather, Soft toy, Flooring and wall coverings	LP170
LP170L	1550±50	74	0.34±0.05	Max. 1.5	60	3000±1000	Min. 1.0	-	Low viscosity	Synthetic leather, Coating, Dipping, Slush molding	LP170L
LP170G	1650±50	75	0.34±0.05	Max. 1.5	60	3500±500	Min. 1.0	-	Excellent deaeration properties, Low viscosity, Stable viscosity at high temperature	Glove, Dipping	LP170G
LP010F	1650±100	75	0.34±0.05	Max. 1.5	60	4000±1500	Min. 1.0	-	Excellent deaeration properties, Low viscosity, Stable viscosity	Hard toy, Label, Dipping, Rotational molding, Slush molding, Cast molding	LP010F
LK170	1600±100	75	0.33±0.05	Max. 1.5	60	4000±1500	Min. 1.0	3.5±1.0	Low viscosity, Low fusion temperature	Adhesives for sheet & film, Sealant, Automotive Underbody coater, Carpet adhesive laye	LK170
LP130G	1200±100	70	0.36±0.05	Max. 0.2	130	4500±2000	Min. 0.4	-	High plasticizer absorption, Dilatant flow	Protection glove, Dipping, Slush molding	LP130G

MSP Resins**

PB085	900±50	64	0.35±0.05	Max. 0.7	60	6000±2000	Min. 2.0	-	Low viscosity, Excellent foam properties, Good white color	Wall coverings, Synthetic Leather	PB085
PB1120	1000±50	66	0.36±0.05	Max. 0.7	60	30000±15000	Min. 2.0	-	Pseudoplastic flow, Excellent foam properties, Chemical embossing	Wall coverings for rotary screen, Foam layer for flooring, Synthetic Leather	PB1120
PB1152C	1000±50	66	0.36±0.05	Max. 0.2	50	30000±25000	Min. 1.0	-	Pseudoplastic flow, Excellent foam properties, Chemical embossing	Synthetic leather, Chemical foaming and compact layer in flooring	PB1152C
PB1202	1050±50	67	0.36±0.05	Max. 0.2	40	25000±15000	Min. 0.3	-	Foam properties, Low viscosity, High surface gloss	Synthetic leather, Flooring and wall coverings, Gloss surface layer	PB1202
PB1302	1250±50	70	0.36±0.05	Max. 0.2	40	20000±10000	Min. 0.4	-	Low viscosity, Low Fusion temperature	Conveyor belt, Non-foaming sheet, General purpose grade for coated layer	PB1302
PB1752	1700±100	76	0.35±0.05	Max. 0.2	40	20000±10000	Min. 0.3	-	High transparency, High tensile strength	Tarpaulin, Rotational molding, Glove, Skin layer for flooring	PB1752
PE1311	1250±50	70	0.36±0.05	Max. 0.2	90	55000±30000	Min. 2.0	-	High plasticizer application, Good flow properties at high shear rate, Good chemical foaming with low density and fine cell	Glove, Dipping, Low density foam layer in wall coverings and flooring, Synthetic leather	PE1311
PA1302	1300±20	71	0.35±0.05	Max. 0.2	50	20000±10000	Min. 0.4	3.0±1.0	Low fusion temperature, Good flow properties at high shear rate	Adhesives for sheet & film	PA1302

* Mainly microsuspension polymerization resin.

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The listed values should be used for referential purpose only.