LG Paste PVC (Emulsion PVC)

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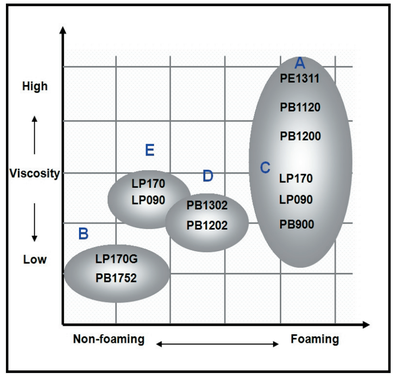
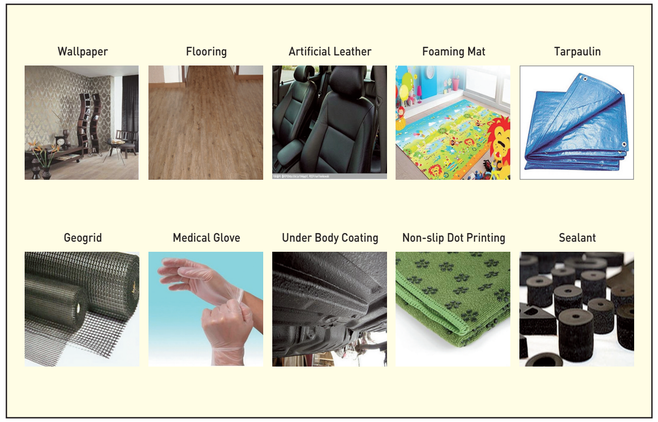


Properties of PVC

DP (K-value)	• The length of the molecular chains in the PVC • A higher K value provides better mechanical properties, provided the gelation conditions are adequate
Viscosity	• Brookfield Viscosity in case of a given proportion of plasticizer • In most cases low viscosity is preferred, however according to the process it could changed
Foaming Properties	• For chemical foaming process, degree of foaming quality • Foaming ratio, color, cell structure, etc

A : High foam products (Mat, High foam layer, etc.)
B : Non-foam products (Skin layer, Carpet tile, Toy, Glove, etc.)
C : Foam products (Wallpaper, Synthetic leather, etc.)
D : Foam/Non-foam products (Tarpaulin, Synthetic leather, etc.)
E : Non-foam products (Automotive, etc.)

Applications of Emulsion PVC



LG Emulsion PVC Grades

Polymerization	Grade	K-value	Brookfield Viscosity	Characteristic
Micro-Suspension	LP090	64	4,500 ± 2,000	Low Viscosity, Excellent Foam Properties, Low Aging Plastisol
	LP170	74	5,500 ± 2,000	Excellent Foam Properties, Good Mechanical Properties
	LP170G	76	4,000 ± 1,000	Excellent De-aeration Properties, Low & Stable Viscosity
	LK170	75	4,000 ± 1,500	Acetate Co-Polymer (VAc 3.5%), Low Fusion Temperature
Micro-Seeded	PB900	64	6,000 ± 2,500	Low Viscosity, Excellent Foam Properties, Good White Color
	PB1120	66	30,000 ± 15,000	Excellent Foam Properties, Chemical Embossing
	PB1200	69	12,500 ± 7,500	Medium-High Viscosity, Good Pseudo-Plastic Property
	PB1202	67	4,000 ± 2,000	Foam Properties, Low Viscosity, High Surface Gloss
	PB1302	70	3,500 ± 2,000	Low Viscosity, Low Fusion Temperature
	PB1752	76	3,000 ± 2,000	High Transparency, High Tensile Strength, Very Low Viscosity
	PE1311	70	35,000 ± 25,000	Very High Viscosity, Excellent Pseudo-Plastic Property
	PA1302	70	12,000 ± 8,000	Acetate Co-Polymer (VAc 3.0%), Low Flow Properties
Specialty	LB100M	-		Reducing Plastisol Viscosity, Low Gloss, Matt Effect
	LB110	64		Reducing Plastisol Viscosity(Modified Rheological Behavior)

Applications of LG Emulsion PVC Grades

Applications		LG'sGrades	Basic Formulations (in Korea)
Wallpaper (Foaming)		PB900, PB1120, LP090	PVC 100 + Plasticizer 80 + Filler 100 + Blowing agent 3 + TiO2 12.5 + Heat stabilizer 3 + Viscosity agent ~10
Artificial Leather (Foaming)		PB1120, PB1200, PB1202, PB1302, LP090, LP170	PVC 100 + Plasticizer 70 + Filler 50 + Blowing agent 3 + Heat stabilizer 3
Flooring	Skin	PB1752, LP170	PVC 100 + Plasticizer 45 + Heat stabilizer 3 + viscosity agent ~10 + UV absorber 0.2
	Foaming	PB1120, PB1200, PE1311, LP090, LP170	PVC 100 + Plasticizer 55 + Filler 80 + Blowing agent 6.5 + Heat stabilizer 3 + Viscosity agent ~5
Tarpaulin		PB1202, PB1302, PB1752	PVC 100 + Plasticizer 75 + Filler 30 + Heat stabilizer 3
Mat (Foaming)		PB1120, PB1200, PE1311, LP090, LP170	PVC 100 + Plasticizer 100 + Filler 20 + Blowing agent 7 + Heat stabilizer 3
Medical Glove		LP170G	PVC100 + Plasticizer 80 + 2nd Plasticizer 10 + Heat stabilizer 1.5 + Viscosity agent ~10
Under Body Coating		PA1302, LK170(Co polymer) PB1202, LP090, LP170(Homo polymer) LB110(Blend Resin)	-

Packing Type

• Paper Bag
– Suspension : 25kg
– Emulsion : 20kg

• Jumbo Bag

• Container Bulk

• **Suspension Resins :** Paper Bag (25kg), Jumbo Bag, Sea-bulk.
• **Emulsion Resins :** Paper Bag (20kg), Jumbo Bag.

Contact

(As of April 2014)

Product	Name	E-mail address	Region in charge of
Suspension	Taekyu (Anakin) Jung	freshgum@lgchem.com	India
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2페이지 JunYoung-CMYK

LG PVC PB1202

Paste Resin

Responsible Care

Product Information

www.chemwide.com

General Description

PB1202, homopolymer made by micro-suspension seeded polymerization, PVC Resin has a fluid property similar to Newtonian fluidity (low-viscosity) It is mainly used for non-foaming products by coating, also used for foaming products. It is wide used for products in which plasticizer is rarely added.

Main Applications

Synthetic leather, Flooring, Wall coverings, Gloss surface layer

Resin Properties

Parameter	Test Method	Unit	Test Condition	Typical Value
K-Value	DIN53726 / ISO1628-2	-	-	67
Degree of Polymerization	JIS K 6720-2	-	30 ℃	1,050 ± 50
Apparent Bulk Density	ASTM D1895	g/cm^3	-	0.36 ± 0.05
Volatiles	ASTM D3030	%	110℃, 1hr	Max. 0.3
B.F Viscosity	ASTM D1824	cps	DOP 60part	4,000±2,000
S.V Viscosity	ASTM D1823	g/sec	DOP 60part	Min. 2.0

Packaging

Paper bag(20kg), Jumbo bag

Certificate Numbers

ISO 9001:2000	00048-1997-AQ-SEO-RvA (rev.1)
ISO 14001:2004	0008-1996-AE-SEO-RvA
OHSAS 18001:1999	0015-2000-HSO-SEO-DNV (rev.1)

LG Chem

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