LG Paste PVC (Emulsion PVC)

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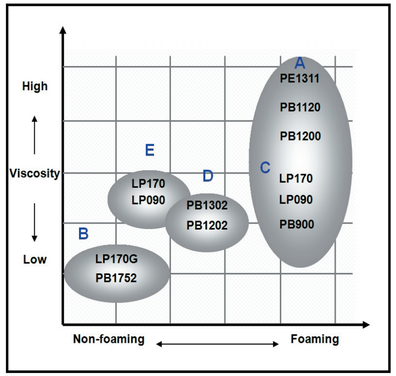
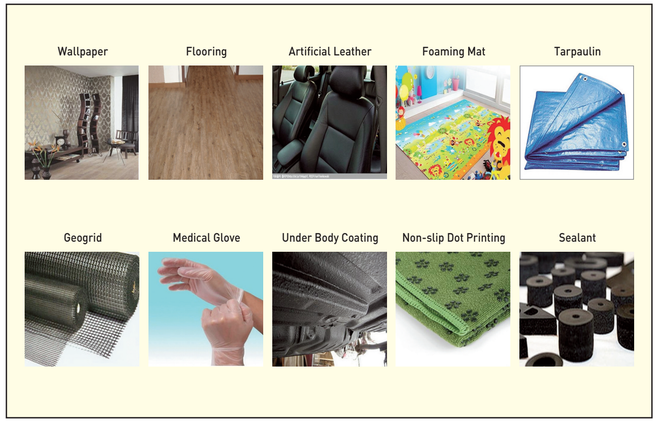


Properties of PVC

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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	Billy Choi	superchoi@lgchem.com	China, India, South West Asia

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TECHNICAL DATA SHEET

Paste PVC Resin - PB1302

Product	Paste PVC Resin - Emulsio
Chemical Formula	(C2H3Cl)n
Cas No	9002-86-2
Print Date	May 10th, 2020

TECHNICAL DATA SHEET
Paste PVC Resin - PB1302
info@chemdo.com
www.chemdo.com

Description

Emulsion PVC is a homo-polymer of PVC and it can be used for coating cloth, rotary forming, macerating, spraying and foaming after mixed with plasticizer and other addition agent.It is a light white and micro fine powder with a mean diameter of 1-2 um. The production technology ATP MSP-3 PVC is coming from France Arkema with the same models produced.

Applications

PVC paste resin is mainly used in the field of soft materials, and can be applied to coating, dipping, slush molding, drip molding, spraying, foaming and other processing processes,PB1302 mainly used for the processing of toys, artificial leather, conveyor belts and other products.

Packaging

Use paper bag with cuff (Inner lined plastic knitting net) , in net weight of 20 kg bag, 12 tons in one of 20'GP, 25 tons in one of 40'GP

Technical Data Sheet

PARAMETER		GRADE
Standard: GB15592-2008		**PB1302**
K - Value		70
Viscidity, ml/g		115-135
Polymerizing Index		1100-1350
Volatile component, % ≤		0.4
Paste thickening rat (24h)/ ≤ %		100
B-type viscosity /Pa.s		≤4.0
Sieve residue %, mg/kg	250um ≤	0
	63um ≤	0.1
VCM Residue PPM ≤		5
Whiteness (160℃,10min)/ % ≥		80
Number of impurity particles ≤		12
Scraper fineness um ≤		100