LG화학홀더-영문3-12 2014.3.12 10:44 AM 페이지1 서울프로=G4 2400-175-cmyk-1

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LG Suspension PVC Grades

LG Suspension PVC Grades

	Grade	K-value	Applications
General Purpose	LS070	58	Rigid Sheet, Film, Fitting, Tile
	LS080S	61	Rigid Sheet, Film, Fitting, Injection, Bottle, Food Package
	LS100	66	Pipe, Wire, Leather ,Hose, Rigid & Flexible Sheet, Wrap
	LS100E	67	Pipe , Profile
	LS100H	67	Pipe , Profile
	LS100S	66	Flexible Sheet ,Leather Sheet , Wrap
	LS130S	71	Wire , Film, Leather , Sheet, Hose
	LS170	76	Wire, Film, Leather , Sheet
	LS300	84	Gasket
Specialty	LC070	58	Tile Adhesive

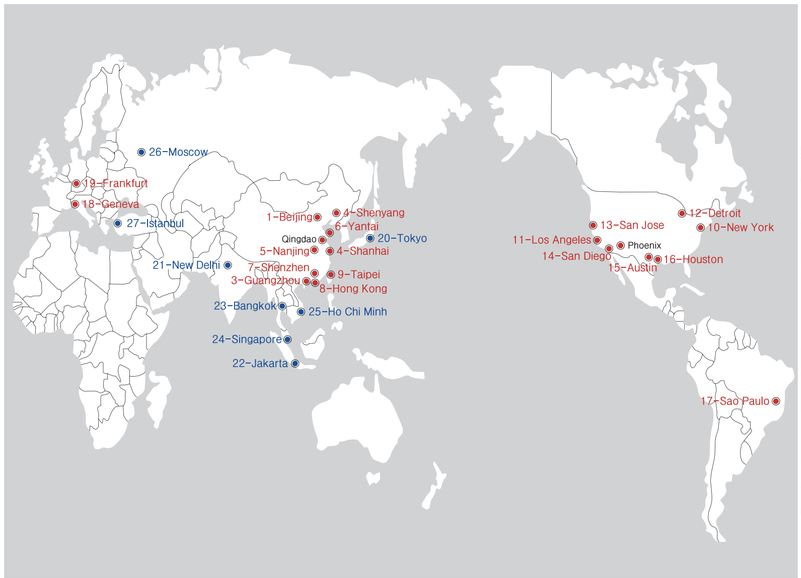
Applications of LG Suspension Grades

Extrusion	Grade	K-value
	LS100	66
	LS100S	66
	LS100E	67
	LS100H	67
	LS130S	71
	LS170	76
	LS300	84

Calendaring	Grade	K-value
	LS070	58
	LS080S	61
	LS100	66
	LS100S	66
	LS130S	71

Injection	Grade	K-value
	LS070	58
	LS080S	61

Global Network



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LG Chem Europe GmbH	18-Geneva	41-22-879-5485
	19-Frankfurt	49-69-6616-2640

REPRESENTATIVE OFFICES

LG Chem Tokyo Office	20-Tokyo	81-3-3584-6545
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LG Chem China Holding Company	Beijing	86-10-6563-2114

LG Chem

HEAD OFFICE
LG Twin Towers, 128, Yeoui-daero
Yeongdeungpo-gu, Seoul, 150-721, KOREA
tel : 82-2-3773-7094, 3484 fax : 82-2-3773-7754

TECH CENTER
175, Gajang-ro, Yuseong-gu, Daejeon, 305-343, Korea
tel : 82-42-860-8520, 8317 fax : 82-42-861-2385

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Poly Vinyl Chloride / LG PVC Resin

Product Guide



LG Chem

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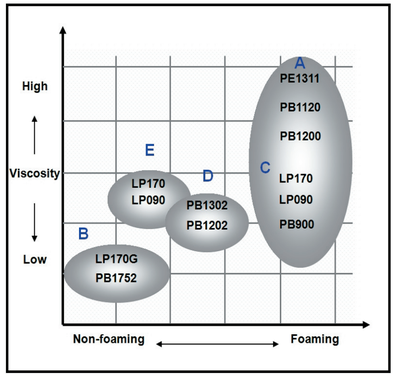
LG Paste PVC (Emulsion PVC)

LG Paste PVC (Emulsion PVC)

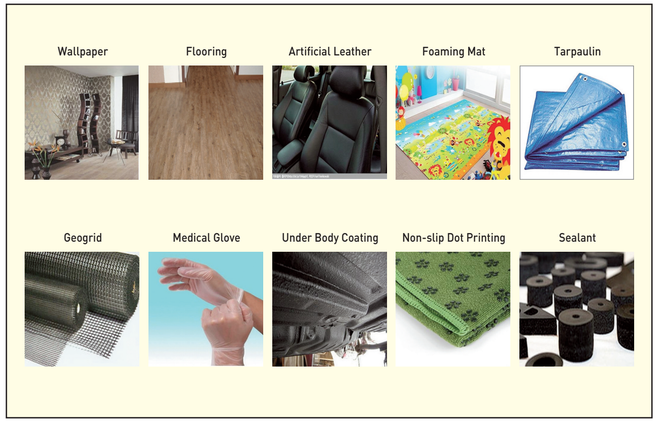


Properties of PVC

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
	J.Y Kim	pclovekjy@lgchem.com	India, Indian Subcontinents
	Joon Lee	leejoon@lgchem.com	India
	Sanghyuck (Shaun) Nam	namsh@lgchem.com	Middle East, Turkey
	Michael Chang	zhangyuzhen@lgchem.com	Africa, Europe, China
	Jaewoo Park	jaewoo@lgchem.com	America, CIS, Oceania, S.E Asia
Emulsion	Benjamin Cho	windy@lgchem.com	Russia, M/East, Turkey
	Yestin Lee	flydung@lgchem.com	Europe, America, S.E Asia, Japan
	Billy Choi	superchoi@lgchem.com	China, India, South West Asia

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