



Lacovyl® PB1305H

PVC for Plastisol

Technical datasheet

Type :

Lacovyl® PB1305H is a medium molecular weight homopolymer polyvinyl chloride. It is produced by KEM ONE micro-suspension polymerisation process and used to prepare plastisol pastes.

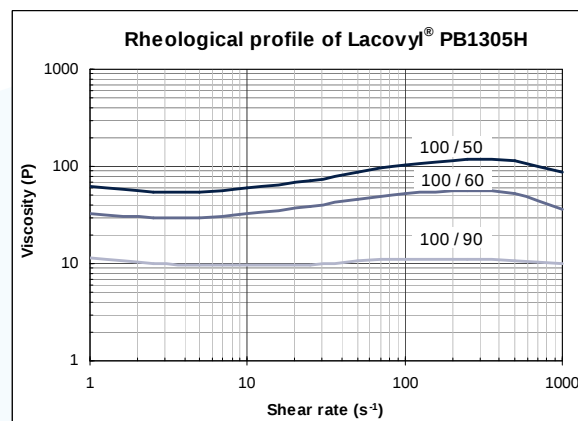
Main uses :

APPLICATION	COMPACT	FOAM
Flooring		
Wallcovering		
Coated Fabric	■ ■	
UBS		
Cap sealant		
Dipping	■	
Rotational moulding	■	

■ ■ Recommended application

■ Possible application

Viscosity curves:



Viscosity measurements of plastisols with 50, 60 and 90 phr DINP by rotational rheometer after 2h at 23°C ageing.

General characteristics :

Lacovyl® PB1305H gives a **fluid plastisol** with excellent air-release properties. Used in **compact applications**, it is specially recommended for applications that require a **very good adhesion on textile** or good UV resistance. PB1305H is the resin of choice for **tarpaulin** and **conveyor belt** applications.

CHARACTERISTIC	VALUE	METHOD
K-Value	70	ISO 1628-2
Viscosity number	125 ml/g	ISO 1628-2
Apparent bulk density	0,4 g/cm ³	ISO 60
Moisture content	< 0,25 %	ISO 1269
pH (Aqueous extract)	7	ISO 1060-2
Fineness (North Gauge)	100 µm	EN ISO 1524
Viscosity* at 5 s ⁻¹ (Equivalent Brookfield 20 rpm)	30 P or 3,0 Pa.s	EN ISO 3219
Viscosity* at 100 s ⁻¹	52 P or 5,2 Pa.s	EN ISO 3219

* viscosity measured with a mixture of PVC 100 / DINP 60 after 2 h of ageing at 23°C

Properties :

Résin

Lacovyl® PB1305H is a very fine particle size resin that can be used for extremely thin coatings.

Plastisol

Plastisols formulated with Lacovyl® PB1305H generally show a pseudoplastic behaviour. This allows the use of PB1305H in processes and applications that require a high degree of shear (thin coating at high speed) or in highly filled formulations where a long pot-life without a major risk of settlement is important. PB1305H gives a plastisol with excellent air-release properties.

Compact coating

Lacovyl® PB1305H has been developed to enhance adhesion on textiles, especially for formulation with an adhesion promoter additive: PB1305H allows to increase the plastisol pot-life with adhesion agent or to reduce its amount in the formulation keeping the same adhesion properties. Used in low or medium plasticised applications or in filled formulations, PB1305H gives to compact coating a very good thermal stability (both short and long term) combined to an excellent UV resistance. Thus, PB1305H is the choice resin for tarpaulin and conveyor belt applications. Its medium K-value gives to compact coating a semi-gloss to gloss surface finish.



■ Packaging and storage :

Lacovyl® resins are supplied in 25 kg bags, wrapped on pallets. Resin must be stored in a dry place away from all heat sources, direct or indirect. The recommended storage time for this resin is 18 months maximum. For any information on the handling and precautions required when using Lacovyl® resins, please refer to the Material Safety Data Sheet, available on our website www.kemone.com (Links).

■ Lacovyl® range for plastisol :

GRADE	K-Value	APPLICATION		VISCOSITY	SELECTION CRITERIA
		Compact	Foam		
PA1384	69	■	■	Fluid	Copolymer, gelation improvement
PB1156	66		■	Viscous	Foam whiteness
PB1172H	67	■	■	Very fluid	Low-plasticised application, moulding
PB1202	67	■	■	Very fluid	Excellent filler acceptance
PB1302 / PB1302H	70	■		Very fluid	Multi-purpose resin, gloss
PB1305H	70	■		Fluid	Adhesion on textile substrate
PB1702	78.5	■		Very fluid	Mechanical properties, semi-matness
PB1704 / PB1704H	82	■		Fluid	High mechanical properties, matness
PB1705H	82	■		Fluid	Matness, improved dark yellowing
PE1311H	70	■	■	Very viscous	Highly pseudoplastic, Very low fogging
PE1511H	75	■	■	Very viscous	Very low fogging, Embossing

■ General Information :

KEM ONE's development laboratory (LAP) is dedicated to providing an efficient technical assistance to our customers. Its specialized and modern equipment makes it a highly-skilled laboratory especially in formulation, rheology and particle size measurement.



Saint-Auban development laboratory (LAP)

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