KEM ONE

Lacovyl® PB1156

PVC for Plastisol

Technical datasheet

Type :

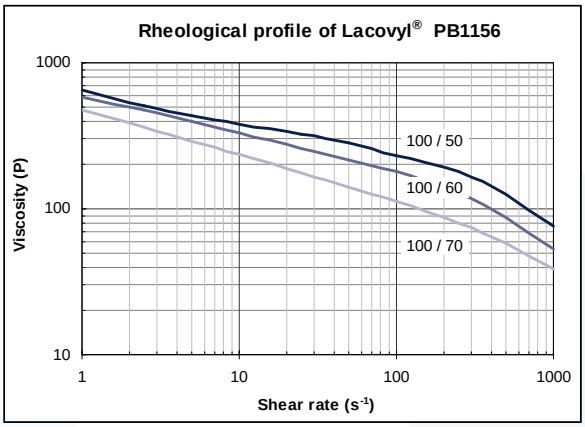
Lacovyl® PB1156 is a low molecular weight homopolymer polyvinyl chloride. It is produced by KEM ONE microsuspension polymerisation process and used to prepare plastisol pastes.

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 70 phr DINP by rotational rheometer after 2h at 23°C ageing.

General characteristics :

Lacovyl® PB1156 is a **very fine** resin which gives plastisols with **medium viscosity** and provides an **excellent quality of foam**. Generally used in cellular applications, it is specially recommended for medium plasticised foams with a very high level of whiteness and an excellent cellular quality.

CHARACTERISTIC	VALUE	METHOD
K-Value	66	ISO 1628-2
Viscosity number	110 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
Sieve retention (63 µm)	< 1 %	EN ISO 1624
Fineness (North Gauge)	100 µm	EN ISO 1524
Viscosity* at 5 s^{-1} (*Equivalent Brookfield 20 rpm)*	393 P or 39,3 Pa.s	EN ISO 3219
Viscosity* at 100 s^{-1}	178 P or 17,8 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® PB1156 is a very fine particle size resin that can be used for extremely thin coatings.

Plastisol

Plastisols formulated with Lacovyl® PB1156 generally show a pseudoplastic behaviour. This allows the use of PB1156 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.

Compact coating

Lacovyl® PB1156 can be used for medium plasticised compact applications thanks to its level of viscosity and its very good thermal stability. It can also enter into automotive sealants composition.

Cellular coating

Lacovyl® PB1156 has been developed to obtain the best compromise rheology/whiteness/cellular quality. It allows PB1156 to be used for the production of very good quality foams (homogeneous cellular structure and high whiteness index) keeping plastisol at a medium level of viscosity. PB1156 provides good response to inhibition, which makes it a choice resin for applications in flooring, wall covering and coated fabrics.

LACOVYL

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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