



PB 1172H

Type:

PB 1172H is a medium K-value PVC homopolymer resin obtained by microsuspension polymerisation and destined for the preparation of plastisols.

Main uses:

- * Coating: floor and wall coverings, coated fabrics, coil coating,
- * Rotary moulding,
- * Dipping,
- * Crown seals.

LACOVYL® PB 1172H resin can be used for both compact and cellular applications.

General characteristics:

PB 1172H is a very low viscosity resin specially recommended for lightly (or very lightly) plasticised applications or high filler content formulations.

	ISO reference	Value	Units
Viscosity index	(ISO 1628-2)	114	ml/g
K-value	(ISO 1628-2)	67	
Humidity	(ISO 1269)	< 0.25	%
Rheological behaviour	Pseudoplastic		
Plasticiser range	35 phr ← → 70 phr		

Properties:

Resin

The high degree of fineness of PB 1172H resin allows coatings in extremely thin films without producing defects.

Plastisols

The pseudoplastic behaviour of plastisols prepared with PB 1172H allows its use for applications demanding high shear processing: thin coatings at high speed.

This pseudoplasticity also allows storage of highly dosed formulations without major risk of settlement.

Compact coatings

PB 1172H has good filler acceptance and easy gelation for heated drum use. Gelation occurs without sticking to the drum even when using very highly dosed formulations.

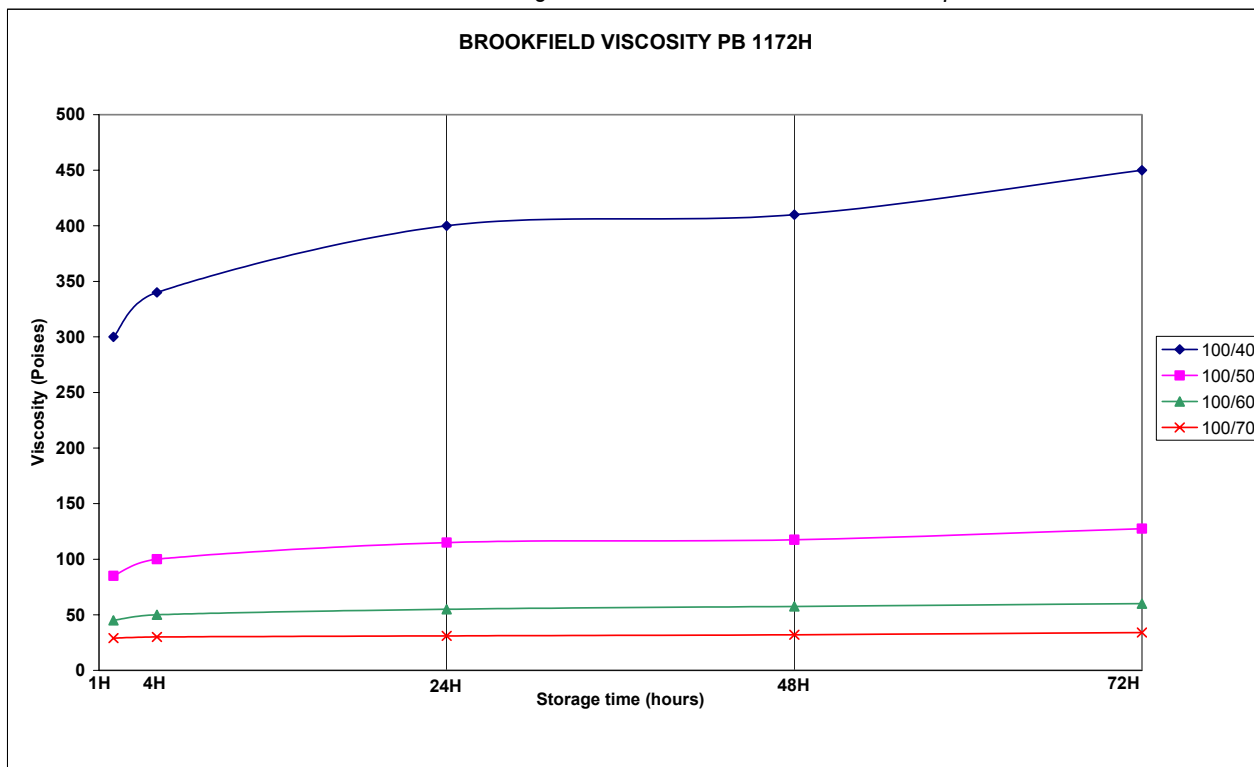
The medium K-value of the resin allows semi-brilliant and brilliant coatings to be obtained.

Cellular coatings

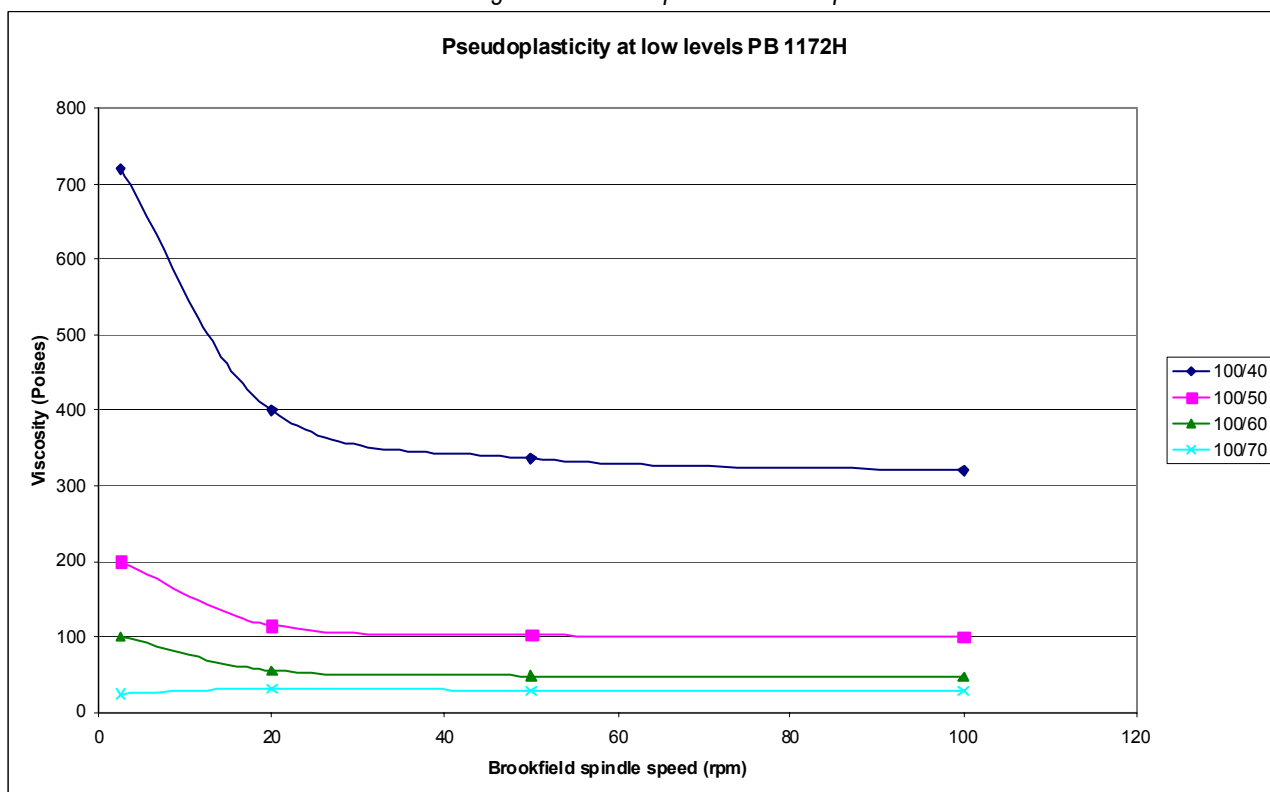
PB 1172H resin is a very good compromise for rheology, whiteness and cellular quality. It is therefore recommended for cellular fabric coatings with low plasticiser content or for wallpaper coatings.

Rheological Properties:

Low shear level readings: BROOKFIELD viscosimeter at 20 rpm

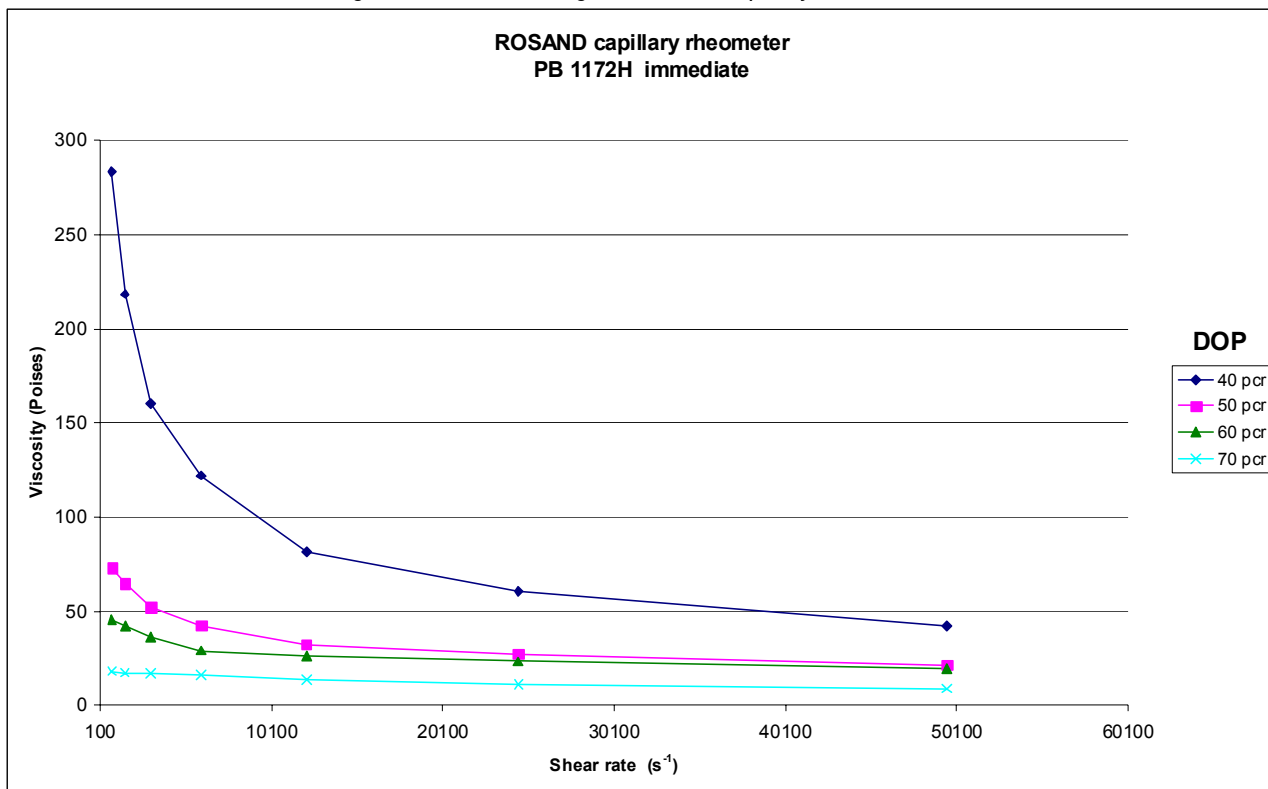


Viscosity after 24 hours rest-time according to Brookfield spindle rotation speed



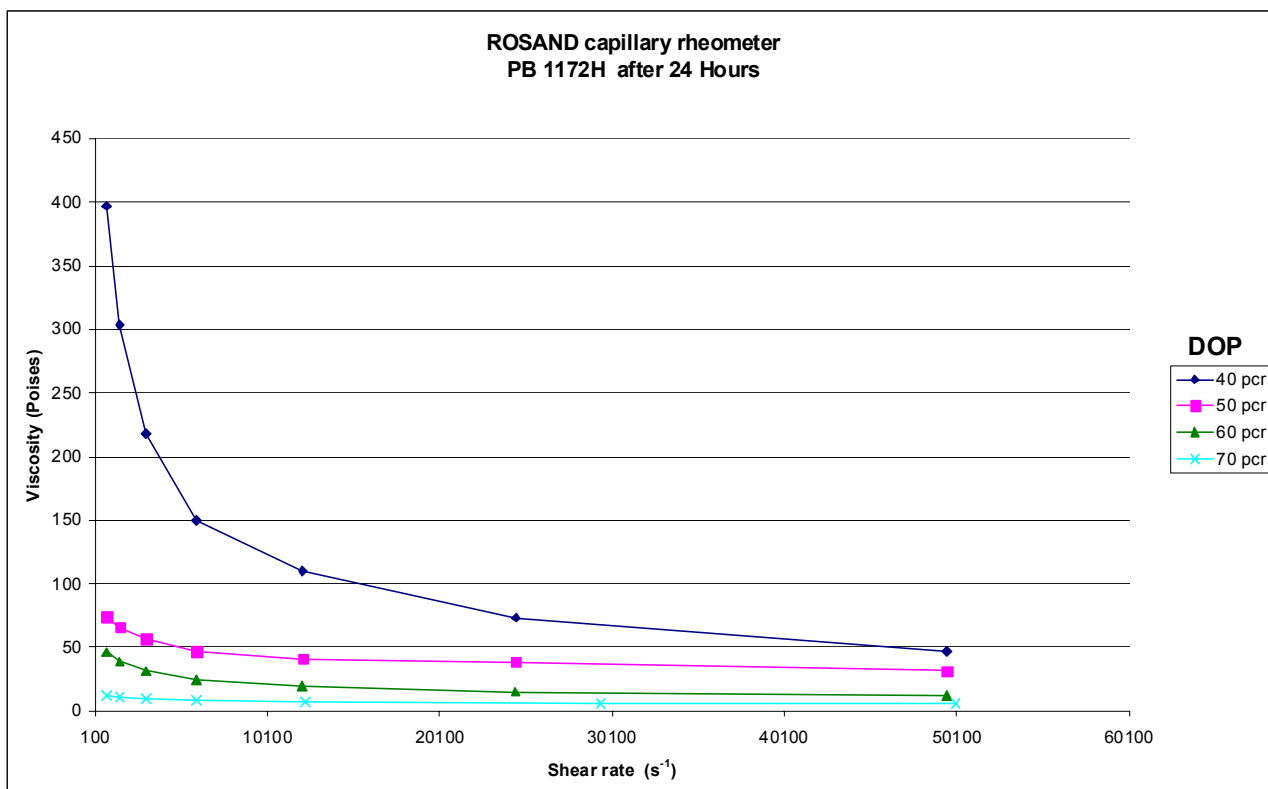
Ageing/Rest-time: the plastisols were stored at 23°C et 50% relative humidity. The four curves correspond to four different plasticisation levels.

High shear level readings: ROSAND capillary viscosimeter



The PB 1172H resin showed pseudoplastic behaviour.

The same readings of capillary viscosity after 24 hours rest-time at 23°C and 50% relative humidity gave the following results:



As the preceding graph shows, the pseudoplastic nature of PB 1172H resin remained pronounced after 24 hours rest-time of the plastisol.

Packaging and storage:

PB 1172H resin is packed in bags of 25 kg, packed and wrapped on pallets.

It can also be delivered in bulk.

The 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 information on the precautions for the use of PB 1172H resin, please refer to the safety information sheet for this product.

General Information:

Further processing information and recommendations can be obtained from our Technical Service department or our representatives.

Réf.	Edition n°	Date
BU PVC	08.01	04/2008

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