



# PB 1302

## Type:

PB 1302 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 1302 resin is generally used for compact applications.*

## General characteristics:

PB 1302 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)	125	ml/g
K-value	(ISO 1628-2)	70	
Humidity	(ISO 1269)	< 0.25	%
Rheological behaviour	Pseudoplastic		
Plasticiser range	30 phr ← → 70 phr		

## Properties:

### Resin

The high degree of fineness of PB 1302 resin allows coatings in extremely thin films without producing defects.

### Plastisols

The pseudoplastic behaviour of plastisols prepared with PB 1302 allows its use for applications demanding high shear processing: thin coatings at high speed.

This pseudoplasticity also allows storage of high-filler content formulations without major risk of settlement.

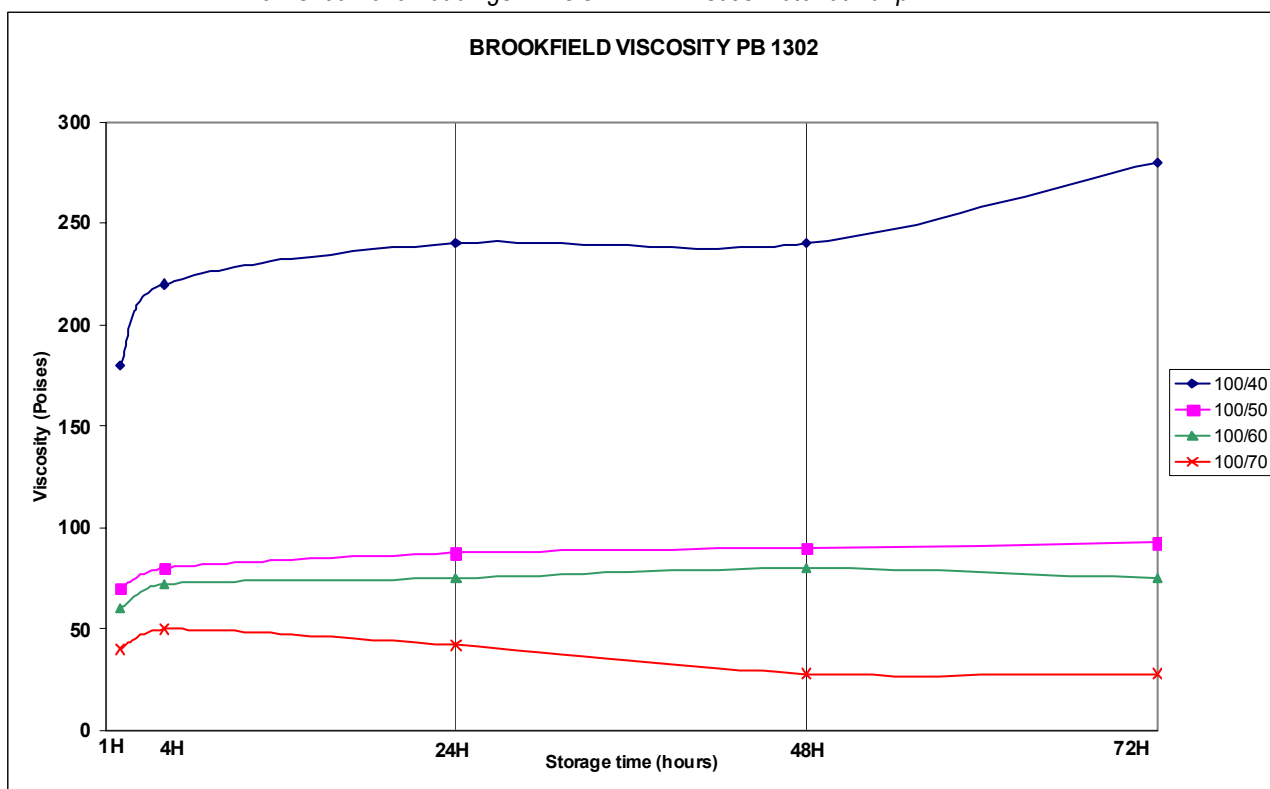
### Compact coatings

Coatings produced using PB 1302 have good thermal stability (short and long term) notably allowing gelation of thick articles requiring high temperatures and long times in the oven.

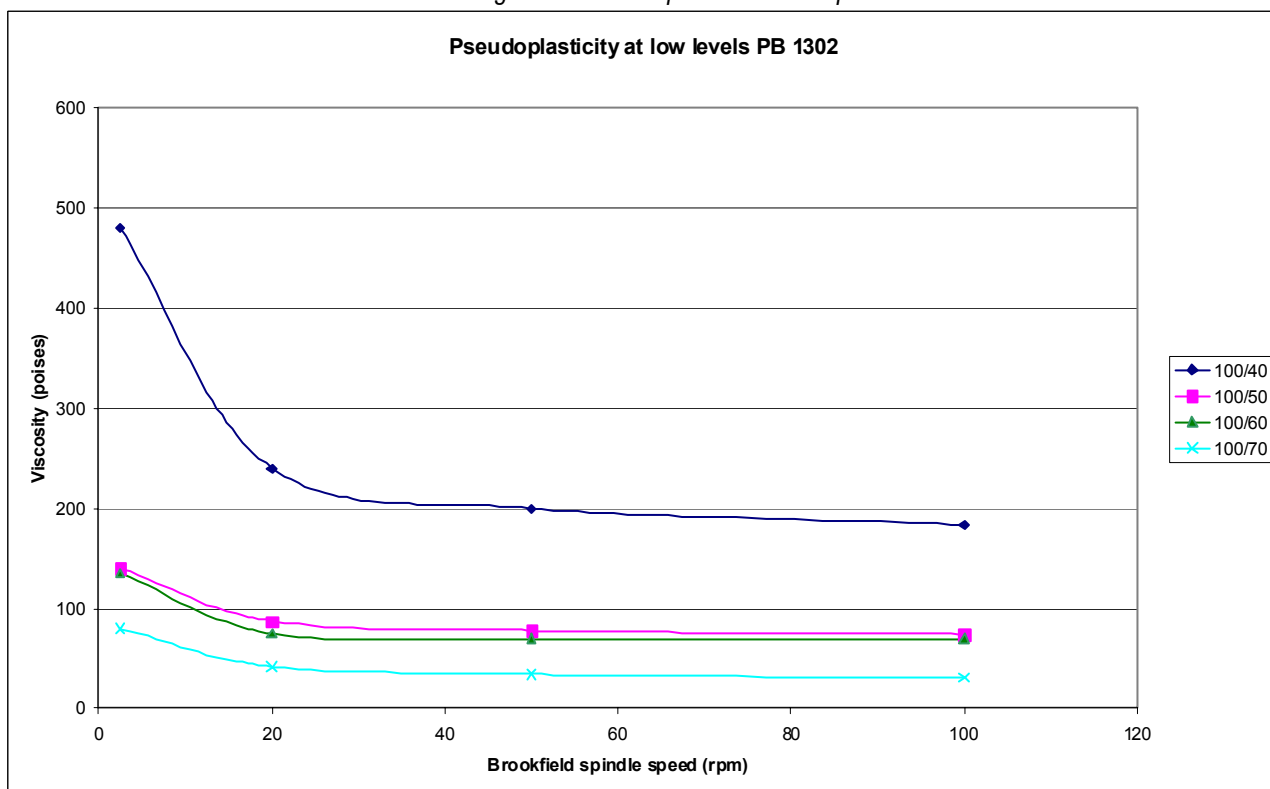
The medium K-value of the resin allows semi-brilliant and brilliant coatings to be obtained.

## Rheological properties:

Low shear level readings: BROOKFIELD viscosimeter at 20 rpm

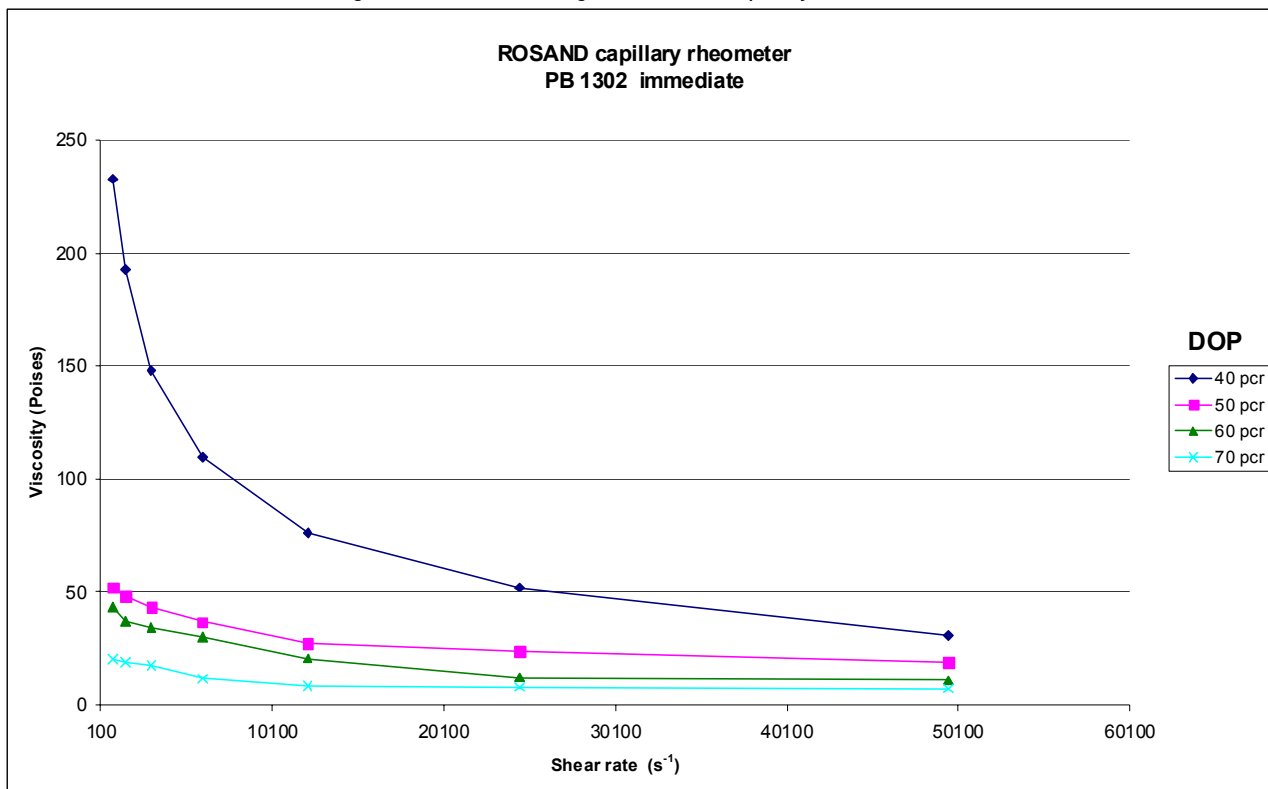


Viscosity after 24 hours rest-time  
according to Brookfield spindle rotation speed



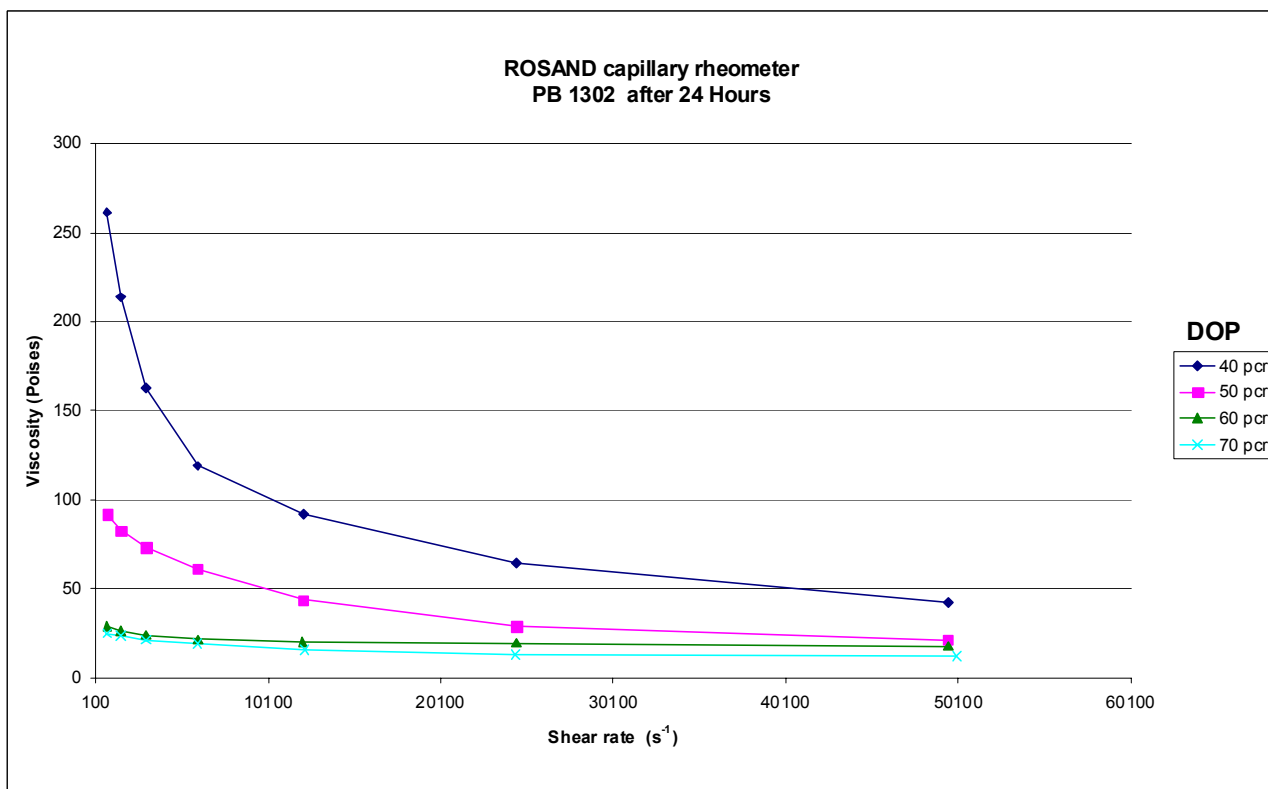
Ageing/Rest-time: the plastisols were stored at 23°C et 50% relative humidity. The four curves correspond to four different plasticisation levels.

High shear level readings: ROSAND capillary viscosimeter



The PB 1302 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 1302 resin remained pronounced after 24 hours rest-time of the plastisol.

### Packaging and storage:

PB 1302 resin is packed in bags of 25 kg, stacked 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 1302 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

The information contained in this document is based on trials carried out by our Research Centres and data selected from the literature, but shall in no event be held to constitute or imply any warranty, undertaking, express or implied commitment from our part. Our formal specifications define the limit of our commitment. No liability whatsoever can be accepted by Arkema with regard to the handling, processing or use of the product or products concerned which must in all cases be employed in accordance with all relevant laws and/or regulations in force in the country or countries concerned.