



PE 1311H

Type:

PE 1311H is a 70 K-value PVC homopolymer resin obtained by emulsion polymerisation and destined for the preparation of plastisols.

Main uses:

- * Plasticised coated fabrics (compact and cellular),
- * Thick foams,
- * Automobile mastics (insulation etc).

LACOVYL® PE 1311H is a medium K-value (K=70) resin, very viscous and very pseudoplastic, for use with high plasticiser levels. PE 1311H also allows the production of thick foams with very fine cellular texture.

General characteristics:

	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	Very Pseudoplastic		
Plasticiser range	70 phr ←————→ 130 phr		

Properties:

Resin

The high degree of fineness of PE 1311H resin allows coatings in extremely thin layers without producing defects.

Plastisols

The highly pseudoplastic behaviour of plastisols prepared with PE 1311H allows use of the resin for filled applications without sedimentation during storage.

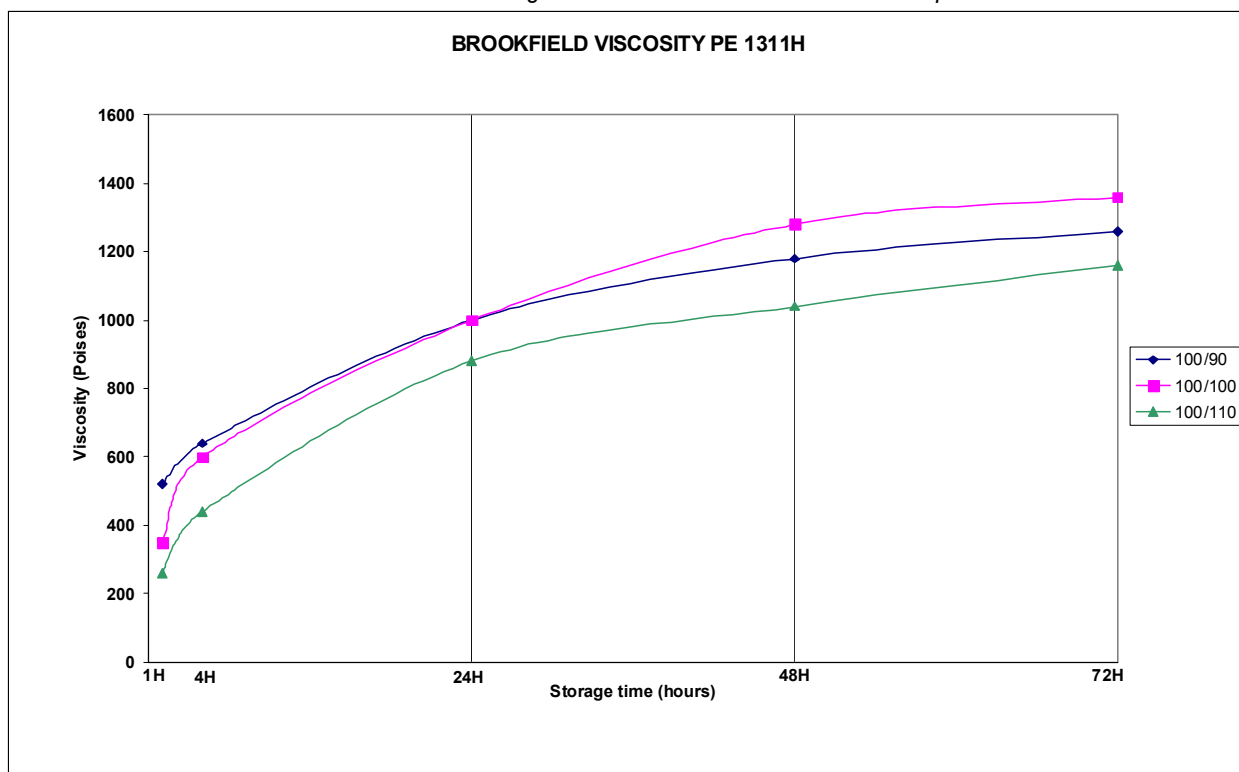
This highly pseudoplastic behaviour also allows utilisation with high shear levels (thin coatings at high speeds) with no seepage through the web.

Cellular coatings

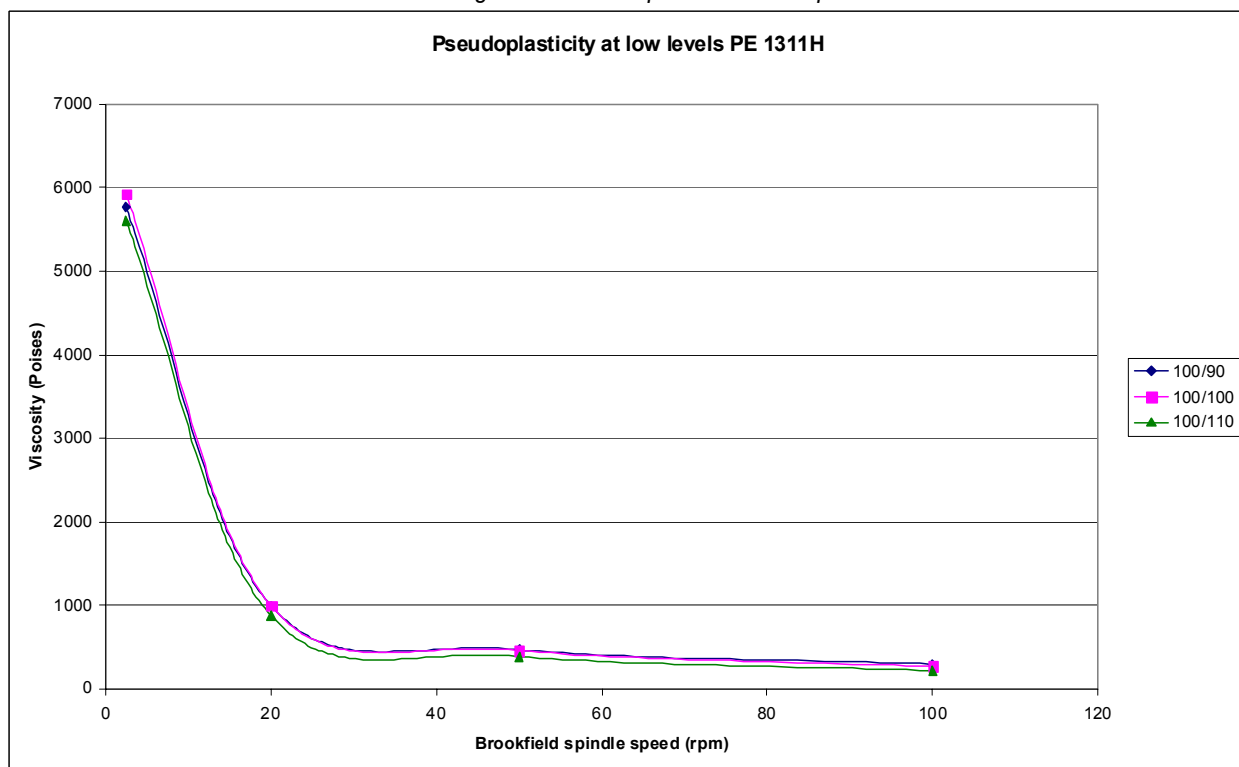
The 70 K-value of PE 1311H allows the production of articles in foam possessing very fine, homogeneous cellular structure.

Rheological properties:

Low shear level readings: BROOKFIELD viscosimeter at 20 rpm

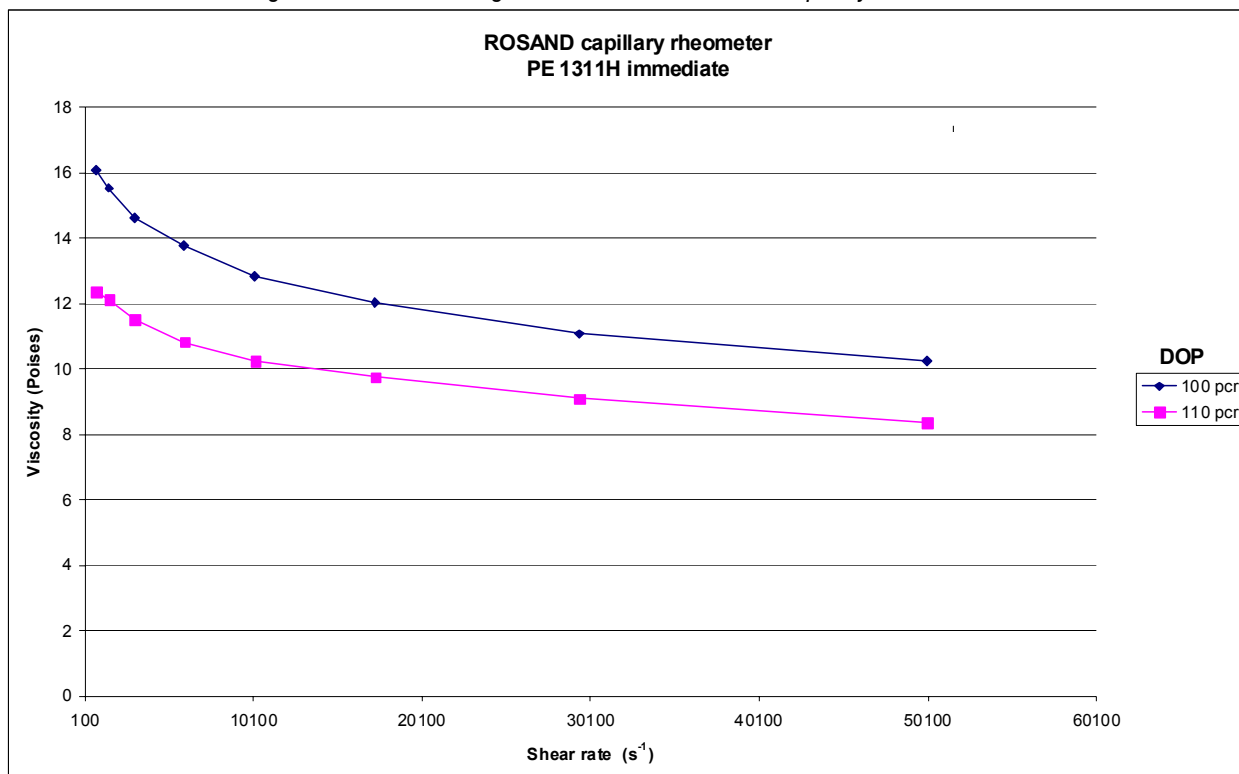


Viscosity after 24 hours rest-time
according to Brookfield spindle rotation speed



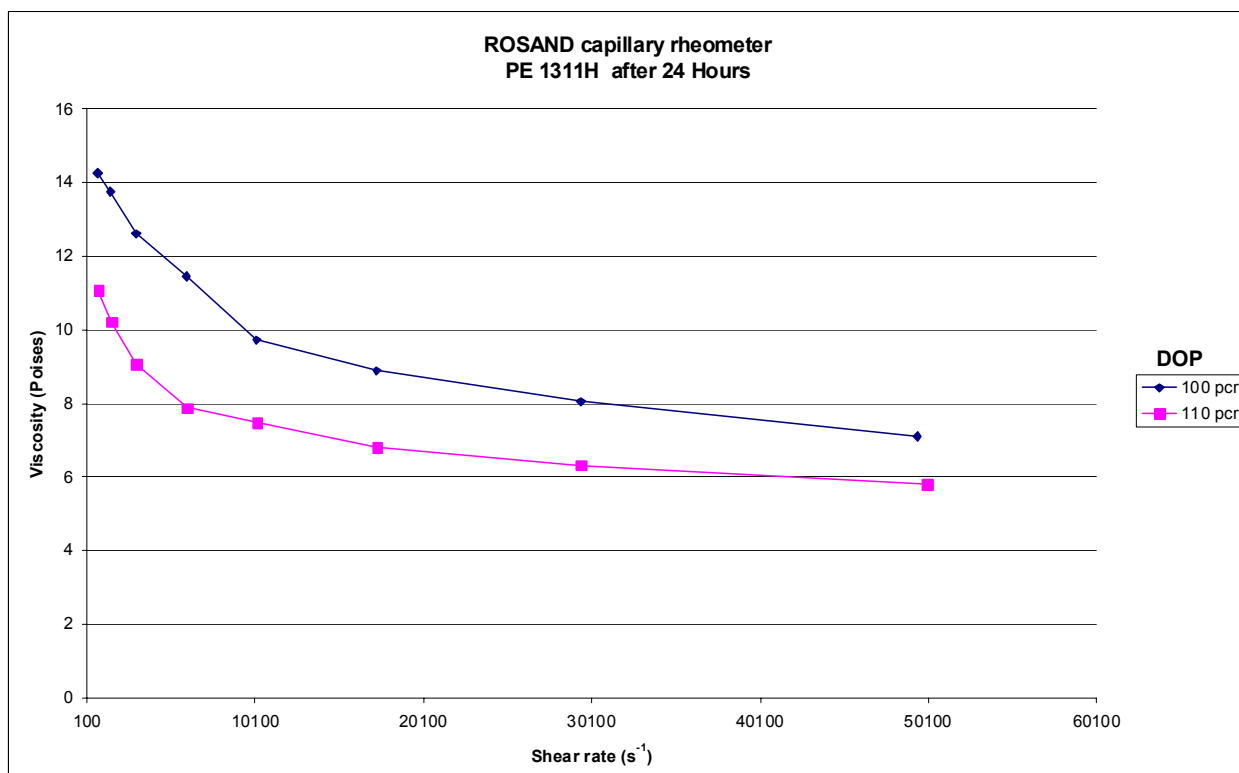
Ageing/Rest-time: the plastisols were stored at 23°C and 50% relative humidity. The three curves correspond to three different plasticisation levels.

High shear level readings after 4 hours: ROSAND capillary viscosimeter



The PE 1311H resin showed very 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 very pseudoplastic nature of the PE 1311H resin remained pronounced after 24 hours rest-time of the plastisol.

Packaging and storage:

PE 1311H 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 PE 1311H 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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