



# PA 1384

## Type:

PA 1384 is a medium K-value vinyl chloride and vinyl acetate (4%) copolymer resin obtained by microsuspension polymerisation for the preparation of plastisols that gel at low temperature.

## Main uses:

- \* Coating: floor and wall coverings, coated fabrics,
- \* Dipping,
- \* Crown seals,
- \* Spraying for sealants.

**LACOVYL® PA 1384 resin can be used for both compact and cellular applications.**

## General characteristics:

PA 1384 is a fluid resin particularly recommended for low or moderately plasticised formulations.

	ISO reference	Value	Units
Viscosity index	(ISO 1628-2)	120	ml/g
K-value	(ISO 1628-2)	69	
Humidity	(ISO 1269)	< 0.25	%
Rheological behaviour	Pseudoplastic		
Plasticiser range	45 phr ←————→ 90 phr		

## Properties:

### Resin

PA 1384 is a very fine resin allowing coating good quality thin films.

### Plastisols

The pseudoplastic behaviour of plastisols prepared with PA 1384 makes the resin suitable for applications demanding high shear processing: small thickness coatings at high speed.

Pseudoplasticity allows the storage of heavily filled formulations without major risk of settlement.

### Compact coatings

The low temperature gelation of PA 1384 makes it suitable for various applications where a very rapid gelation is required:

- Compact coating on synthetic backing (polyamide, etc.)
- Cellular coatings, foam produced chemically or mechanically for floor coverings
- Compact or cellular coatings for surface spraying, flocking, thread adhesion (roller blinds)
- Back-to-back adhesion of fabrics using a very fluid plastisol
- Protective mastic spraying (waterproofing, undersealing) on cars etc.

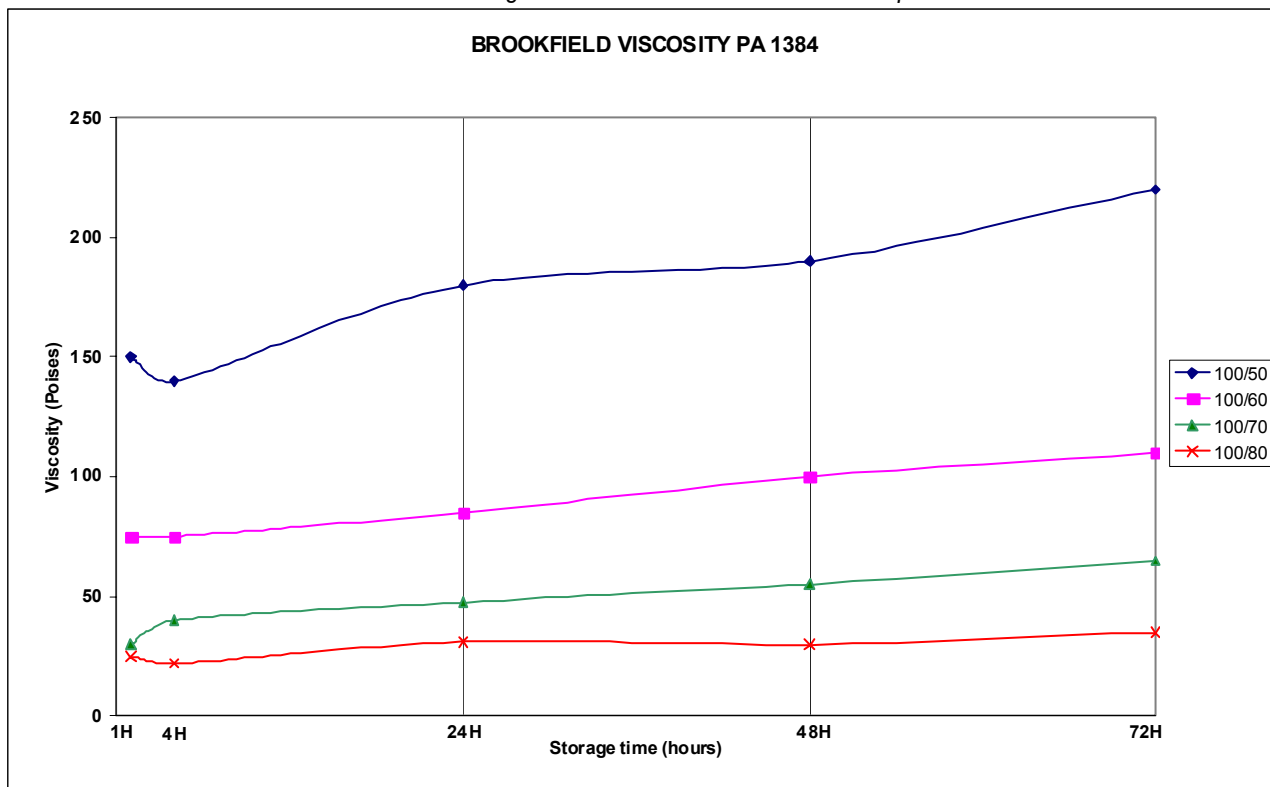
### Cellular coatings

PA 1384 resin allows the production of good quality cellular structure, in both chemically and mechanically produced foams.

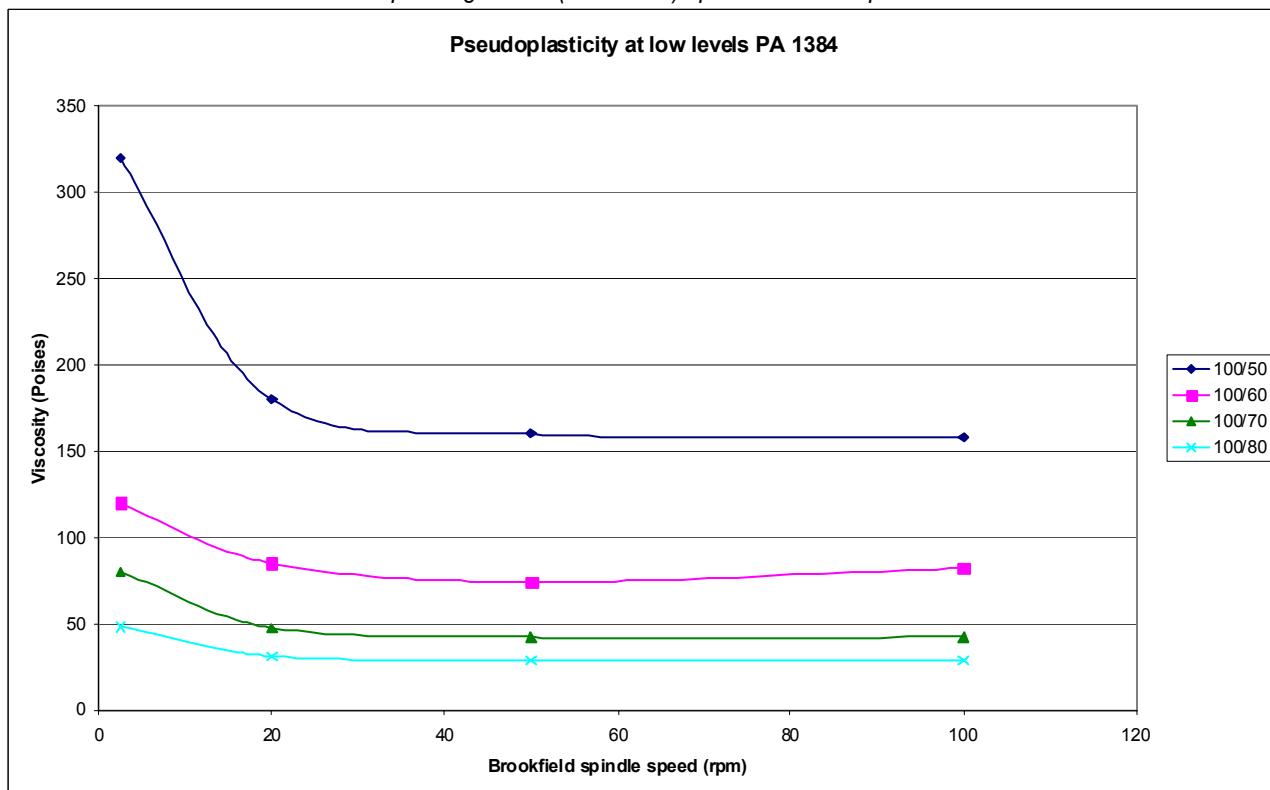
The low gelation temperature (from 145°C to 155°C depending on the plasticiser system) allows reduction in oven time and thereby **faster production line speeds**. There are **energy saving implications** using this low temperature / faster gelling grade.

## Rheological properties:

Low shear level readings: BROOKFIELD viscometer at 20 rpm in DOP.

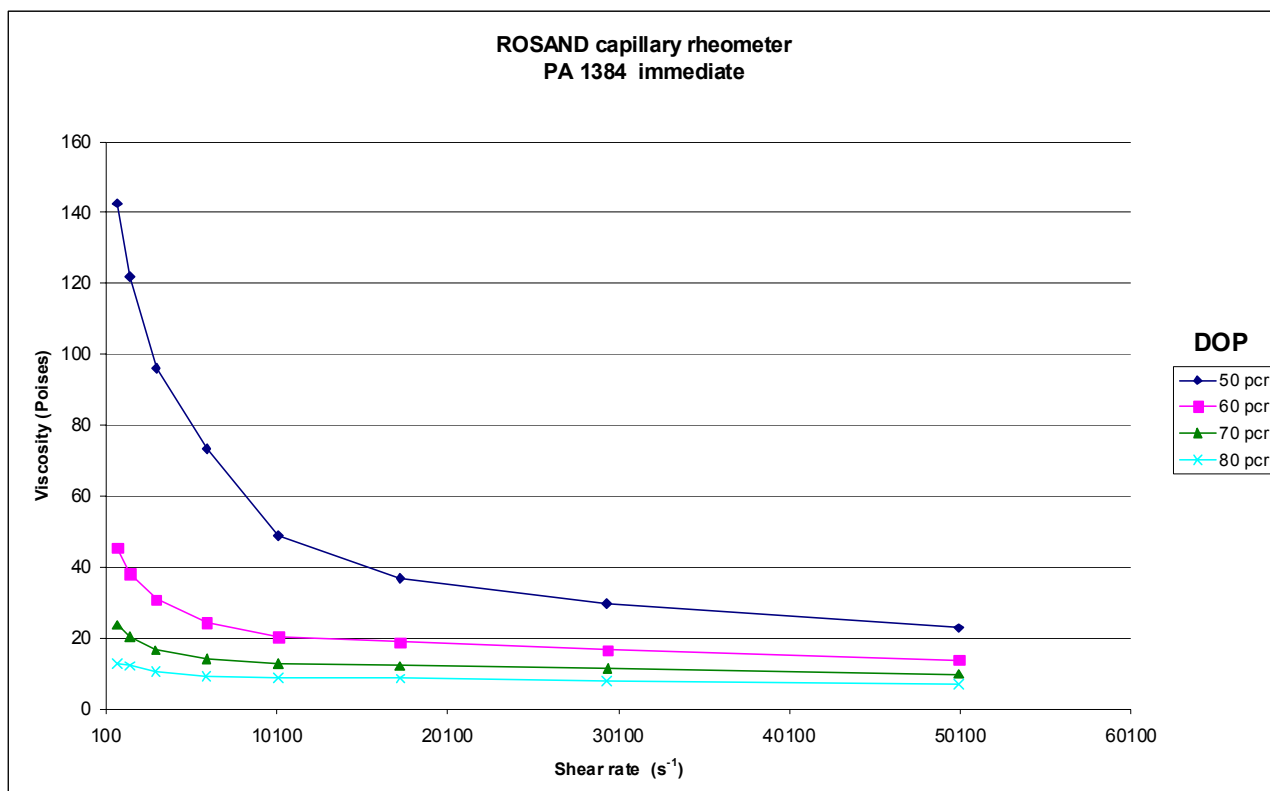


Viscosity after 24 hours rest-time in the DOP depending on the (Brookfield) spindle rotation speed



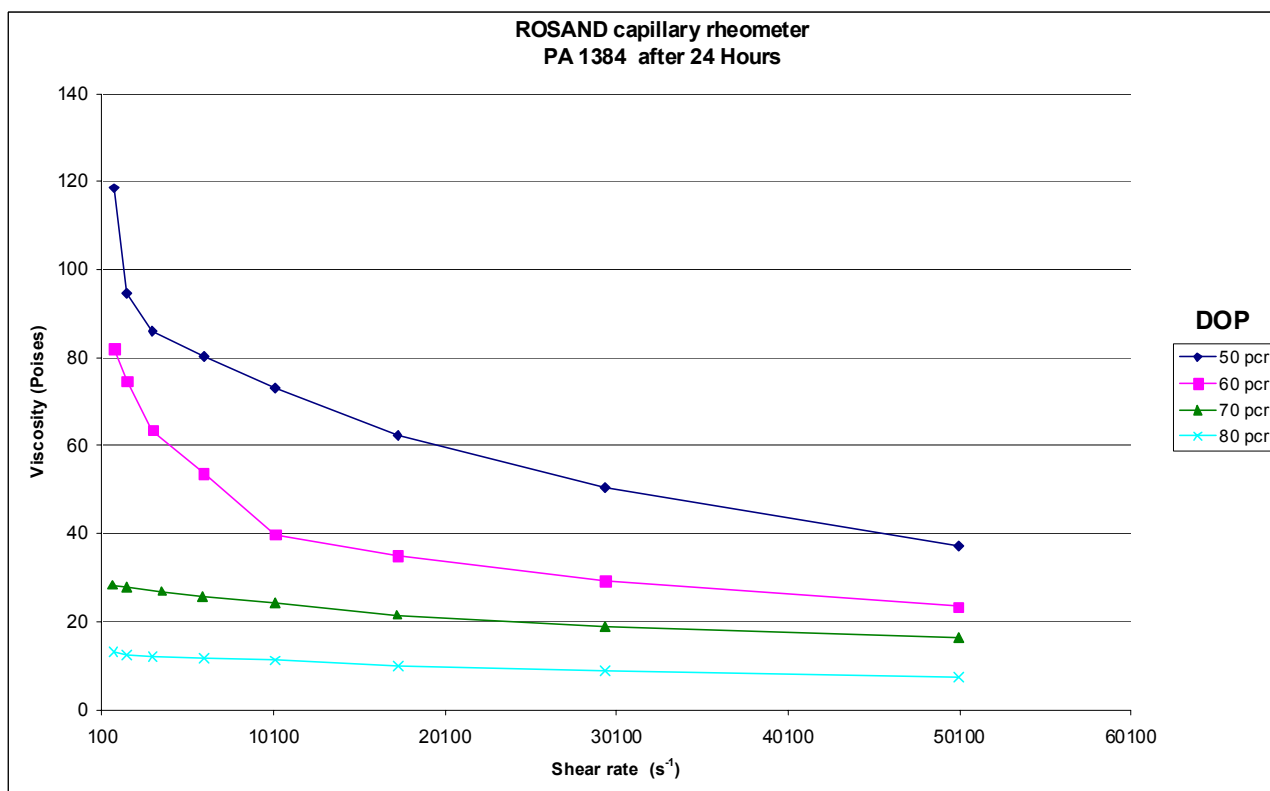
Ageing/Rest-time: the plastisols were stored at 23°C and 50% relative humidity. The four curves correspond to four different plasticisation levels.

## High shear level readings: ROSAND capillary viscometer



The PA 1384 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, even after 24 hours rest-time, the pseudoplastic nature of the plastisol made with PA 1384 remained pronounced.

### Packaging and storage:

PA 1384 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 PA 1384 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.

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BU PVC	08.01	04/2008

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