

# Sovermol® 1106

## general

Sovermol® 1106 is a polyol used in the manufacturing of fast curing polyurethanes

- High reactive polyol
- Extremely short gel time
- Usable as internal catalyst in 2K PU systems
- High Shore D hardness >80

The product might be slightly cloudy - this does not affect the product properties in a negative way

## chemical nature

Branched polyether/polyester

## Properties

### physical form

Yellow, low viscosity fluid

### shelf life

When stored under the usual appropriate storage conditions, the product can be stored for at least 1 year.

### typical properties (no supply specification)

Water content (DGF C-III 13A)	<= 0.15%
Acid number (ISO 660)	<= 1.0 mg KOH/g
Hydroxyl number (DGF C-V 17A)	235 – 255 mg KOH/g
Viscosity (dynamic) (25 °C) (DIN 53015)	80 – 150 mPa·s
Density (20 °C) (ISO 2811-3)	0.975 -0.985 g/cm <sup>3</sup>

## Application

In combination with Polymer MDI Sovermol® 1106 can be used for the production of fast curing 2-pack PU casting systems.

### Mixing Formulation (without filler)

100 g Sovermol® 1106

5 g Zeolith paste

59 g Polymer MDI\*

\*e.g. Lupranate M 20 S – BASF Polyurethanes

Gel time at 23 °C approx. 2 min (30g mass).

### Shore hardness (ISO 868) (storage/room temperature)

A D

after 1 day  
after 2 days  
after 3 days  
after 7 days  
after 14 days  
after 28 days

100	82
-	82
-	-
-	-
-	82
-	84

Temperature  
[°C]

10

20

30

40

50

60

70

Density  
[g/mL]

0,9877

0,9807

0,9735

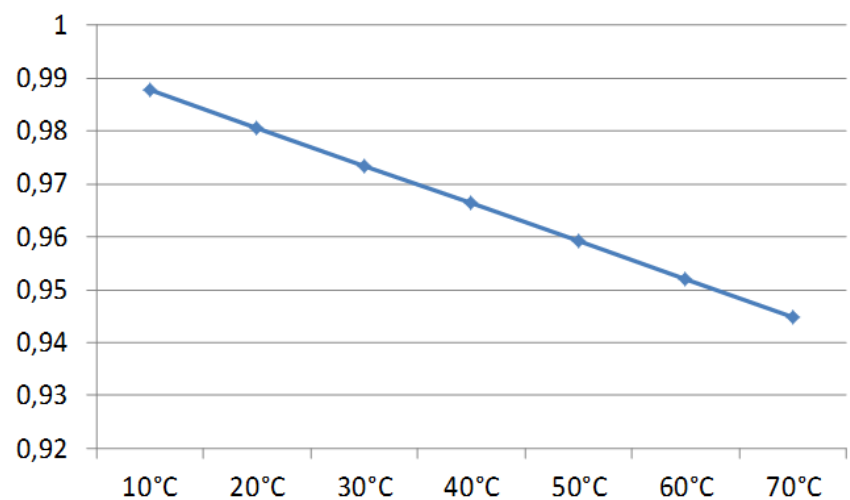
0,9663

0,9591

0,9520

0,9447

### Density



## Technical Data

### Sovermol® 1106 in combination with

#### Polymer MDI\*

#### Shore D hardness RT (ISO 868)

after 1 day	82
after 2 days	82
after 3 days	-
after 7 days	-
after 14 days	82
after 28 days	84

Mixing ratio 100:59

Geltime in hours Coesfield 00:02

Tensile strength in MPa  
(ISO 527-3 Typ5) 46

Elongation in % (ISO 527-3 Typ5) 4

Bending strength in MPa  
(ISO 178) 63

\* e.g. Lupranat M 20 S, BASF Polyurethanes

## Registration / Regulatory Information

### Regulatory Status

EU (Europe)  
ENCS (Japan)  
TSCA (USA)  
IECSC (China)

<input checked="" type="radio"/>	
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<input checked="" type="radio"/>	
<input checked="" type="radio"/>	
<input checked="" type="radio"/>	Yes
<input type="radio"/>	No

#### Safety

When handling these products, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

#### Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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