

Sovermol® 1140

Product description Sovermol® 1140 is a polyol used in the manufacturing of polyurethanes.

Key benefits

- Universal polyol for adhesives
- Hydrophobic
- Gel time prolonger
- Hard flexible performance
- High renewable raw material content

Sovermol® 1140 shouldn't be stored at temperatures below 15 °C because it may crystallize partially. This effect is reversible by warming up to 50 °C.

Chemical nature Fatty chemistry polyester

Properties

Physical form Low viscous, yellow, clear liquid

Technical data

(not supply specification)

Water content	DGF C-III 13A	< 0.2 %
Acid number	DGF C-V 2	< 3.0
Hydroxyl number	DGF CV 17A, B	190 – 230 mg KOH/g
Viscosity, dynamic, 25 °C	DIN 53015	600 – 1,400 mPa.s

Application

In combination with Polymer MDI Sovermol® 1140 can be used especially for semi-rigid PU-foams and castings for electronic applications.

Mixing formulation (without filler)

100 g Sovermol® 1140
5 g Zeolith Paste
51 g Polymer MDI*

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

Gel time at 23 °C, approx. 367 min. (30 g mass)

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

	A	D
after 1 day	–	–
after 2 days	50	–
after 3 days	–	–
after 7 days	–	–
after 14 days	98	61
after 28 days	99	69

Technical Data

Sovermol® 1140 in combination with

Polymer MDI*	MDI (Carbodiimide-modified)**
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Shore A/D hardness RT (ISO 868)

after 1 day	–/–	5/–
after 2 days	50/–	67/–
after 3 days	–/–	–/–
after 7 days	–/–	–/–
after 14 days	98/61	–/75
after 28 days	99/69	–/75

Mixing ratio	100:51	100:58
Geltime in hours Coesfield	06:07	05:37
Tensile strength in MPa (ISO 527-3 Typ 5)	10	6
Elongation in % (ISO 527-3 Typ 5)	1	2
Tear resistance in N/mm (ISO 34-1)	14	20
Bending strength in MPa (DIN EN ISO 178)	16	–
Impact resistance in mJ/mm² (DIN 53453)	10	7

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

** e.g. Supraspec 2010, Fa. Huntsmann Polyurethanes

Safety

When handling this product, 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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