

Sovermol® 1140

general

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

- Universal polyol for adhesives
- Hydrophobic
- Geltime 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

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)	< 0.2%
Acid number (DGF C-V 2)	< 3.0
Hydroxyl number (DGF CV 17A,B)	190 - 230 mgKOH/g
Viscosity (25 °C) (DIN 53015)	600 - 1400 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 (30g mass).

Shore hardness (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 (Carbodiimid- modified)**
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 Typ5))	10	6
Elongation in % (ISO 527-3 Typ5)	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. Huntsman Polyurethanes

Registration / Regulatory Information

Regulatory Status

AICS (Australia)

ENCS/MITI (JP)

EINECS (EU)

TSCA (USA)

NDSL (Canada)

PICCS (Philippines)

IECSC (China)

KECL/ECL (Korea)

Yes

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

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