

Sovermol® 1093

general

Sovermol® 1093 is a polyol used in the manufacturing of polyurethanes

- High renewable raw material content
- High Hardness
- Hydrophobic performance
- Hard elastic performance

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, viscous 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 (ISO 4317)	<= 0.2%
Acid number (ISO 660)	<= 2.0 mg KOH/g
Hydroxyl number (DIN 53240-98)	218 – 240 mg KOH/g
Viscosity (dynamic) (25 °C) (ISO 2555)	2200 – 2800 mPa·s
Density (25 °C) (ISO 2811-3)	0.99 – 1.01 g/cm ³
Viscosity (dynamic) (23°C) (ISO 2555)	2600 – 3400 mPa·s

Application

In combination with Polymer MDI Sovermol® 1093 can be used for the production of 2-pack PU coating, casting materials and adhesives.

In addition, Sovermol® 1093 shows particular water repellency, which results in less sensitivity to moisture while curing.

Application example (without filler)

100 g Sovermol® 1093
5 g Zeolith paste
55 g Polymer MDI*

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

Gel time at 23°C approx. 59 min (30g mass).

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

	A	D
after 1 day	96	60
after 2 days	-	-
after 3 days	-	-
after 7 days	100	85
after 14 days	100	87
after 28 days	100	87

Technical Data**Sovermol® 1093 in combination with****Polymer MDI*****Shore D hardness RT (ISO 868)**

after 1 day	60
after 2 days	-
after 3 days	-
after 7 days	85
after 14 days	87
after 28 days	87

Mixing ratio 100:55**Geltime in hours Coesfield** 00:59**Tensile strength in MPa** 43
(ISO 527-3 Typ5))**Elongation in %** 4
(ISO 527-3 Typ5)**Tear resistance in N/mm** 22
(ISO 34-1)**Bending strength in MPa** 54
(DIN EN ISO 178)**Impact resistance in mJ/mm²** 34
(DIN 53453)

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

Registration / Regulatory Information

Regulatory Status

AICS (Australia)
ENCS (JP)
EINECS (EU)
TSCA (USA)
DSL (Canada)
PICCS (Philippines)
IECSC (China)
KECL (Korea)
NZIoC (New Zealand)

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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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