

Sovermol® 1005

Product description Sovermol® 1005 is a polyol used in the manufacturing of polyurethanes.

Key benefits

- Soft elastic performance
- Plasticizer for polyols
- Hydrophobic
- Drinking and potable water application possible upon product specific confirmation according to local legislation
- High renewable raw material content

Chemical nature Slightly branched aliphatic diol

Properties

Physical form Yellow, low viscous liquid

Technical data

(not supply specification)

Water content	DGF C-III 13 A	≤ 0.2 %
Acid number	DGF C-V 2	≤ 3.0
Hydroxyl number	ISO 4326	117 – 130 mg KOH/g
Viscosity, dynamic, 20 °C	ISO 2555 (MOD.)	600 – 800 mPa·s
Density, 25 °C	DGF C-IV 2B (52)	0.94 – 0.96 g/cm ³

Application

In combination with Polymer MDI Sovermol® 1005 can be used to produce 2-pack coating, floorings and adhesives. Especially as plasticizing Co-polyol.

Mixing formulation (without filler)

100 g Sovermol® 1005
5 g Zeolith paste
30 g Polymer MDI*

e.g. Lupranate M20S – BASF Polyurethanes

Gel time at 23 °C, approx. 107 min. (30 g mass)

Shore hardness
(storage/room temperature)

	A	D
after 1 day	–	–
after 2 days	4	–
after 3 days	–	–
after 7 days	–	–
after 14 days	22	–
after 28 days	38	10

Technical Data

Sovermol® 1005 in combination with Polymer MDI*

Shore A hardness RT
(ISO 868)

after 1 day	—
after 2 days	4
after 3 days	—
after 7 days	—
after 14 days	22
after 28 days	38

Mixing ratio

100:30

Geltime in hours (Coesfield)

01:47

Tensile strength in MPa
(ISO 527-3 Typ 5)

1

Elongation in %
(ISO 527-3 Typ 5)

24

Tear resistance in N/mm
(ISO 34-1)

3

Bending strength in MPa
(DIN EN ISO 178)

0.3

* e.g. Lupranat M 20 S, BASF 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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