Technical Information

Sovermol® 810

We create chemistry

general

Sovermol® 810 is a polyol used in the manufacturing of polyurethanes.

- Hydrolysis stable
- Hydrophobic
- Low viscosity
- High filler content possible
- High renewable raw material content

Sovermol 810 shouldn't be stored at temperatures below 15°C because it may crystallize partially. This effect is reversible by warming up to approx. 50°C.

chemical nature

Branched polyether/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)	220 – 240 mgKOH/g
Viscosity (25 °C) (DIN 53015)	700 - 1100 mPa·s
Density (20 °C) (DGF C-IV 2B (52))	0.970 - 1.02 g/cm³

Application

In combination with Polymer MDI Sovermol® 810 can be used for the production of 2 pack coating materials, in floorings and also for electro castings.

Mixing Formulation (without filler)

100 g Sovermol® 810
5 g Zeolith paste
56 g Polymer MDI*

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

Gel time at 23°C approx. 55 min (30g mass).

Shore hardness (storage/room temperature)	A	D
after 1 day	77	32
after 2 days	86	42
after 3 days	-	-
after 7 days	-	-
after 14 days	98	66
after 28 days	98	67

Technical Data

	Sovermol® 810 in combination with	
	Polymer MDI*	**MDI (Carbodiimid- modified)****
Shore A/D hardness RT (ISO 868)		
after 1 day	77/32	82/37
after 2 days	86/42	95/54
after 3 days	-	95/56
after 7 days	-	96/62
after 14 days	98/66	-/63
after 28 days	98/67	-/63
Mixing ratio	100:56	100:64
Geltime in hours Coesfield	00:55	00:54
Tensile strength in MPa (ISO 527-3 Typ5))	18	19
Elongation in % (ISO 527-3 Typ5)	39	51
Tear resistance in N/mm (ISO 34-1)	60	106
Bending strength in MPa (DIN EN ISO 178)	10	-
Impact resistance in mJ/mm² (DIN 53453)	34	-

* 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)	●
EU (EU)	●
TSCA (USA)	●
DSL (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
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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