

Composition

Linear polyether

Specification

OH value (DIN 53240-98)	51 - 59 mgKOH/g
Acid value (ISO 2114)	< 0.2
Viscosity at 25 °C (DIN 51550)	305 - 345 mPa·s
Water content (DIN 51777 T2-74)	< 0.1 %

Additional data

Appearance	slightly yellow, clear liquid
Functionality	~ 2
Acid value (DGF C-V 2)	< 0.2
Density at 20° C	1.003 g/cm ³
Viscosity at 25° C (DIN 51550)	300 - 360 mPa.s

Application

SOVERMOL 1052 is designed to be combined with other Sovermols for example SOVERMOL 815 for the production of flexible 2 pack coating and casting materials.

Technical data

	OHV/NCO		
Sovermol 805	170	50	0
Sovermol 1052	55	50	50
Sovermol 815	215	0	50
Zeolith Paste		5	5
Perenol E8		1	1
Total		106	106
Average OHW		528,7	440,6
MDI* (Carbodiimid-modified)	27 %	31,2	37,4
Factor		1	1
Shore hardness 80° C without catalyst	DIN 53505		
1d	A/D	22/6	37/11
4d	A/D	34/9	43/12
shore hardness RT without catalyst	DIN 53505		
1d	A/D	10/0	17/0
4d	A/D	16/4	39/11
7d	A/D	15/4	40/12
Gel-time 30 g without catalyst	hh:mm:ss	04:41:00	06:30:50
Tensile strength (MPa)	ISO 527-3 Type 5	0,89	1,5
Elongation (%)	ISO 527-3 Type 5	146	134
Tear resistance (N/mm)	ISO 34-1	3,6	4,2

*e.g. Suprasec 2010, Fa. Huntsman Polyurethans

Formulations for UV stable coatings for balcony	
Sovermol 1052/750 in combination with	Aliphatic Polyisocyanat HDI-based NCO = 23%*
Sovermol 750	70
Sovermol 1052	30
Fomrez UL 28** (5 % in Sovermol 750)	0.4
Zeolith paste	5
Perenol E 8	1
Barytes EWO (filler)	100
Mixing rate	100:39
Shore-D hardness RT ISO 868	
1. day	10
4. day	25
Shore-D hardness after 2 days at 80 °C ISO 868	40
Gel-time in minutes Coesfeld	55:00
Tensile strength in MPa ISO 527-3 Type 5	9
Elongation in % ISO 527-3 Type 5	55
Tear resistance in N/mm ISO 34-1	22
Abrasion 120 µm in mg after 1000 rpm Taber-Abraser	181

*e.g.:Tolonate HDT LV 2, Rhodia

**For higher coating thickness (>2mm) it is recommended to use the catalyst K-Kat XC 6212 (King Industries).

Approvals

BfR XV, XXI
FDA §§ 175.105, 175.300, 176.170, 176.180,
176.210, 177.1680, 178.3740
2002/72/EC

Regulatory Status

TSCA, DSL, PICCS, AICS, ECL, ENCS/MITI,
IECSC, EINECS

Revision-No.

8-09.2008 Effective September 4, 2008

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 1 year.

Suggestions of processing and using our products are given with best knowledge and information but without obligation. COGNIS does not accept any guarantee to the suitability of a product for the user's specific purpose. Furtheron the user himself assumes a liability to follow all legal regulations by using our products. The user can only pass on our sample to third parties with previous assent of COGNIS.



functionalproducts