

Sovermol® 1102

general

Sovermol® 1102 is a polyol used in the manufacturing of UV-stable polyurethanes.

- Universal Co-poyol
- Hydrophobic
- Reactive diluent
- Soft elastic performance
- Gel time prolonger

chemical nature

Slightly 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) | <= 0.1% |
| Acid number (DGF C-V 2) | <= 3.0 |
| Hydroxyl number (DGF CV 17A,B) | 210 – 245 mgKOH/g |
| Viscosity (dynamic) (20 °C) (DIN 53015) | 150 - 650 mPa·s |
| Density (20 °C) (DGF C-IV 2B (52)) | 0.980 - 1.02 g/cm ³ |
| Color number (DIN ISO 4630) | 0 - 8 |

Application

In combination with Polymer MDI Sovermol® 1102 can be used for the production of flexible 2 pack coating and casting compounds.

In addition, Sovermol® 1102 is strongly water repellent, which results in less sensitivity to moisture while curing.

Mixing Formulation (without filler)

| |
|-------------------|
| 100 g Sovermol® |
| 5 g Zeolith paste |
| 55 g Polymer MDI* |

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

Gel time at 23°C approx. 195 min (30g mass).

Shore hardness (storage/room temperature)

| | A | D |
|---------------|----|----|
| after 1 day | - | - |
| after 2 days | 39 | 10 |
| after 3 days | - | - |
| after 7 days | - | - |
| after 14 days | 89 | 4 |
| after 28 days | 94 | 56 |

Technical Data

Sovermol® 1102 in combination with

| | Polymer MDI* | MDI (Carbodiimid- modified)** |
|---|--------------|-------------------------------------|
| Shore A/D hardness RT (ISO 868) | | |
| after 1 day | 5/- | 8/- |
| after 2 days | 39/10 | 34/- |
| after 3 days | -/- | 59/- |
| after 7 days | -/- | 67/- |
| after 14 days | 89/45 | 69/- |
| after 28 days | 94/56 | 70/- |
| Mixing ratio | 100:56 | 100:63 |
| Geltime in hours Coesfield | 03:15 | 02:33 |
| Tensile strength in MPa (ISO 527-3 Typ5) | 13 | 6 |
| Elongation in % (ISO 527-3 Typ5) | 52 | 189 |
| Tear resistance in N/mm (ISO 34-1) | 47 | 28 |
| Bending strength in MPa (DIN EN ISO 178) | 2 | - |
| Impact resistance in mJ/mm² (DIN 53453) | 38 | - |

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

** e.g. Supraspec 2010, Fa. Huntsman Polyurethanes

Registration / Regulatory Information

Regulatory Status

AICS (Australia)



ENCS (JP)



EU (EU)



TSCA (USA)



DSL (Canada)



NZIoC (New Zealand)



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.

® = registered trademark, ™ = trademark of BASF Group, unless otherwise noted