



Chemline ET752D

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET752D is a TDI/polyether-based prepolymer. Curing with MBCA yields a 70-75 Shore D elastomer highlighted by:

- √ Very high load-bearing capability
- √ Good toughness & abrasion resistance
- √ Good hydrolytic stability
- √ Excellent impact resistance
- √ Extended pot life

Packaging, Storage, & Shelf Life

Chemline ET752D is available in 55-gallon drums and 5-gallon pails. Store in sealed containers between 60°F and 90°F. Shelf life is 12 months under normal conditions.

Safety

This product is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. Be sure to read SDS in its entirety prior to using **Chemline ET752D**.

Liquid Prepolymer Properties

| Property | Value |
|------------------------|----------------|
| Physical State at 25°C | Viscous liquid |
| %NCO | 8.95-9.25% |
| Viscosity | |
| 70°C (158°F) | TBD |
| 82°C (180°F) | TBD |
| 100°C (212°F) | TBD |

Typical Processing Conditions

| Property | Value |
|--|---------------------------|
| Prepolymer Temperature | 65°C (150°F) |
| MBCA Temperature | 115°C (240°F) |
| MBCA Level (90% stoichiometry, 9.00% NCO) | 25.7 pph |
| Mold Temperature | 100°C (212°F) |
| Pot Life | 2 minutes |
| Post Cure Time | 16 hours at 100°C (212°F) |

Cured Elastomer Properties

| Property | Value |
|-------------------|---------------------|
| Hardness, Shore D | 70-75 D |
| 100% Modulus | 4800 psi (33.1 MPa) |
| 200% Modulus | 6460 psi (44.5 MPa) |
| Flex Modulus | 73000 psi (503 MPa) |
| Tensile Strength | 7800 psi (53.8 MPa) |
| Elongation | 260% |
| Trouser Tear | 135 pli (23.6 kN/m) |
| Bashore Rebound | 62% |

*Values obtained in laboratory setting for comparison purposes only and should not be considered specifications.

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