



Chemline ET951

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET951 is a TDI/polyether-based prepolymer. Curing with MBCA yields a 95 Shore A elastomer highlighted by:

- √ Good toughness & abrasion resistance
- √ Excellent load-bearing capability
- √ Good hydrolytic stability

Packaging, Storage, & Shelf Life

Chemline ET951 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 ET951**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	6.10-6.50%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	TBD

Typical Processing Conditions

Property	Value
Prepolymer Temperature	75°C (165°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 6.41% NCO)	19.35 pph
Mold Temperature	100°C (212°F)
Pot Life	3-4 Minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	95 A
100% Modulus	1950 psi (13.4 MPa)
200% Modulus	2740 psi (18.9 MPa)
300% Modulus	3550 psi (24.5 MPa)
Tensile Strength	6840 psi (47.2 MPa)
Elongation	380%
Die C Tear Strength	600 pli (105.1 kN/m)
Trouser Tear	130 pli (22.8 kN/m)
Bashore Rebound	47%

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

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Chemline, Inc. • 5151 Natural Bridge Ave. • St. Louis, MO 63115 • Phone: (314) 664 - 2230
• 19500 S. Alameda St. • Los Angeles, CA 90221 • Phone: (310) 764 - 0820

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