



Chemline ET500D

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET500D is a TDI/polyether-based prepolymer. Curing with MBCA yields a 95 Shore A (50-52 Shore D) elastomer highlighted by:

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

Packaging, Storage, & Shelf Life

Chemline ET500D 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 ET500D**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	6.15-6.55%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	200 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	77°C (170°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 6.36% NCO)	19.2 pph
Mold Temperature	100°C (212°F)
Pot Life	2 Minutes
Post Cure Time	12 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A / D	95 A / 50-52 D
100% Modulus	1760 psi (12.1 MPa)
200% Modulus	2280 psi (15.7 MPa)
300% Modulus	3250 psi (22.4 MPa)
Tensile Strength	6120 psi (42.2 MPa)
Elongation	410%
Die C Tear Strength	435 pli (76.2 kN/m)
Bashore Rebound	47%

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

Revised 01/2018

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