



Chemline ET600D

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET600D is a TDI/polyether-based prepolymer. Curing with MBCA yields a 60 Shore D elastomer highlighted by:

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

Packaging, Storage, & Shelf Life

Chemline ET600D 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 ET600D**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	6.50-6.80%
Viscosity	
70°C (158°F)	1300 cps
82°C (180°F)	675 cps
100°C (212°F)	325 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	74°C (165°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 6.57% NCO)	19.8 pph
Mold Temperature	100°C (212°F)
Pot Life	6-7 minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore D	60 D
100% Modulus	3460 psi (23.9 MPa)
200% Modulus	5290 psi (36.5 MPa)
300% Modulus	7900 psi (54.5 MPa)
Tensile Strength	7900 psi (54.5 MPa)
Elongation	300%
Die C Tear Strength	710 pli (124.3 kN/m)
Trouser Tear	120 pli (21.0 kN/m)
Bashore Rebound	55%

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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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