



Chemline ET650D

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET650D is a TDI/polyether-based prepolymer. Curing with MBCA yields a 65 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 ET650D 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 ET650D**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	7.35-7.75 %
Viscosity	
70°C (158°F)	1800 cps
82°C (180°F)	950 cps
100°C (212°F)	450 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	74°C (165°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 7.5% NCO)	26.9 pph
Mold Temperature	100°C (212°F)
Pot Life	4-5 minute
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore D	65 D
100% Modulus	3580 psi (24.7 MPa)
200% Modulus	5430 psi (37.4 MPa)
Tensile Strength	7560 psi (52.1 MPa)
Elongation	270%
Die C Tear Strength	750 pli (131.3 kN/m)
Bashore Rebound	58%

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

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