



Chemline ET730D

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET730D is a TDI/polyether-based prepolymer. Curing with MBCA yields a 70-72 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 ET730D 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 ET730D**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	9.25-9.65%
Viscosity	
70°C (158°F)	600 cps
82°C (180°F)	300 cps
100°C (212°F)	150 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	65°C (150°F)
MBCA Temperature	115°C (240°F)
MBCA Level (90% stoichiometry, 9.40% NCO)	26.9 pph
Mold Temperature	100°C (212°F)
Pot Life	2 minute
Post Cure Time	1 hour at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore D	70-72 D
100% Modulus	5220 psi (36.0 MPa)
200% Modulus	7310 psi (50.4 MPa)
Tensile Strength	7700 psi (53.1 MPa)
Elongation	200%
Die C Tear Strength	1150 pli (201.4 kN/m)
Trouser Tear	180 pli (31.5 kN/m)
Bashore Rebound	62%

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

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