



Chemline ET820

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET820 is a TDI/polyether-based prepolymer. Curing with MBCA yields a 82 Shore A elastomer highlighted by:

- √ High resilience
- √ Excellent impingement abrasion resistance
- √ Good hydrolytic stability
- √ Resistant to microbial attack

Packaging, Storage, & Shelf Life

Chemline ET820 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 ET820**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	2.95-3.25%
Viscosity	
70°C (158°F)	1700 cps
82°C (180°F)	1100 cps
100°C (212°F)	600 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	85°C (185°F)
MBCA Temperature	116°C (240°F)
MBCA Level (100% stoichiometry, 3.25% NCO)	10.33 pph
Mold Temperature	100°C (212°F)
Pot Life	12-13 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	82 A
100% Modulus	655 psi (4.5 MPa)
200% Modulus	830 psi (5.7 MPa)
300% Modulus	1080 psi (7.4 MPa)
Tensile Strength	4900 psi (33.8 MPa)
Elongation	600%
Die C Tear Strength	350 pli (61.3 kN/m)
Bashore Rebound	61%

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

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