



Chemline PT800

TDI-Polyether Hot Cast Prepolymer

Description

Chemline PT800 is a TDI/PPG-based prepolymer. Curing with MBCA yields a 80 Shore A elastomer highlighted by:

- √ Liquid at room temperature
- √ Good abrasion resistance and toughness
- √ High impact absorption

Packaging, Storage, & Shelf Life

Chemline PT800 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 PT800**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Clear, amber liquid
%NCO	3.30-3.70%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	400 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	66°C (150°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 3.61% NCO)	10.9 pph
Mold Temperature	100°C (212°F)
Pot Life	10-11 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	80 A
100% Modulus	560 psi (3.7 MPa)
200% Modulus	780 psi (5.4 MPa)
300% Modulus	980 psi (6.8 MPa)
Tensile Strength	3270 psi (22.5 MPa)
Elongation	630%
Die C Tear Strength	260 pli (45.5 kN/m)
Bashore Rebound	35%

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

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