



Chemline PT900

TDI-Polyether Hot Cast Prepolymer

Description

Chemline PT900 is a TDI/PPG-based prepolymer. Curing with MBCA yields a 91 Shore A elastomer highlighted by:

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

Packaging, Storage, & Shelf Life

Chemline PT900 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 PT900**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Clear, amber liquid
%NCO	5.25-5.65%
Viscosity	
70°C (158°F)	350 cps
82°C (180°F)	200 cps
100°C (212°F)	150 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	66°C (150°F)
MBCA Temperature	115°C (240°F)
MBCA Level (90% stoichiometry, 5.45% NCO)	15.6 pph
Mold Temperature	100°C (212°F)
Pot Life	5 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	91 A
100% Modulus	1030 psi (7.1 MPa)
200% Modulus	1480 psi (10.2 MPa)
300% Modulus	2010 psi (13.9 MPa)
Tensile Strength	3720 psi (25.6 MPa)
Elongation	465%
Die C Tear Strength	285 pli (49.9 kN/m)
Bashore Rebound	40%

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

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