



# Chemline PT750D

## TDI-PPG Hot Cast Prepolymer

### Description

**Chemline PT750D** is a TDI/PPG-based prepolymer. Curing with MBCA yields a 77-79 Shore D elastomer highlighted by:

- √ Liquid at room temperature
- √ High modulus and static load-bearing capability
- √ Good hydrolytic stability

### Packaging, Storage, & Shelf Life

**Chemline PT750D** 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 PT750D**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Clear, amber liquid
%NCO	6.60-6.90%
Viscosity	
70°C (158°F)	3150 cps
82°C (180°F)	1300 cps
100°C (212°F)	500 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	82°C (180°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 6.80% NCO)	20.5 pph
Mold Temperature	100°C (212°F)
Pot Life	2-3 minutes
Demold Time	30 minutes
Post Cure Time	16 hours at 100°C (212°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore D	77-79 D
100% Modulus	4600 psi (31.7 MPa)
200% Modulus	5200 psi (35.9 MPa)
300% Modulus	6100 psi (42.1 MPa)
Tensile Strength	6100 psi (42.1 MPa)
Elongation	300%
Die C Tear Strength	1125 pli (197.0 kN/m)
Trouser Tear	245 pli (42.9 kN/m)
Bashore Rebound	60%

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

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