



# Chemline ST800

## TDI-Polyester Hot Cast Prepolymer

### Description

**Chemline ST800** is a TDI/polyester-based prepolymer. Curing with MBCA yields an 80 Shore A elastomer highlighted by:

- √ Good toughness and tear resistance
- √ Excellent abrasion resistance
- √ Good high temperature resistance
- √ High resistance to solvents and oil

### Packaging, Storage, & Shelf Life

**Chemline ST800** 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 ST800**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	3.10-3.50%
Viscosity	
70°C (158°F)	4100 cps
82°C (180°F)	2200 cps
100°C (212°F)	1050 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	90°C (195°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	6-7 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	530 psi (3.7 MPa)
200% Modulus	690 psi (4.8 MPa)
300% Modulus	975 psi (6.7 MPa)
Tensile Strength	6900 psi (47.6 MPa)
Elongation	600%
Die C Tear Strength	365 pli (63.9 kN/m)
Split Tear	230 pli (40.3 kN/m)
Bashore Rebound	30%
Compression Set, Method B 22 hours at 70°C	26%

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

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