



# Chemline ST900

## TDI-Polyester Hot Cast Prepolymer

### Description

**Chemline ST900** is a TDI/polyester-based prepolymer. Curing with MBCA yields a 90 Shore A elastomer highlighted by:

- √ Excellent tensile strength and elongation
- √ Good oil & solvent resistance
- √ High tear strength
- √ Excellent abrasion resistance

### Packaging, Storage, & Shelf Life

**Chemline ST900** 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 ST900**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	4.30-4.70%
Viscosity	
70°C (158°F)	2000 cps
82°C (180°F)	1100 cps
100°C (212°F)	550 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	82-85°C (180-185°F)
MBCA Temperature	116°C (240°F)
MBCA Level (95% stoichiometry, 4.60% NCO)	13.88 pph
Mold Temperature	100°C (212°F)
Pot Life	3.5-4.5 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore A	90 A
100% Modulus	815 psi (5.6 MPa)
200% Modulus	1090 psi (7.5 MPa)
300% Modulus	1660 psi (11.4 MPa)
Tensile Strength	6800 psi (46.9 MPa)
Elongation	520%
Die C Tear Strength	480 pli (84.1 kN/m)
Split Tear	220 pli (38.5 kN/m)
Bashore Rebound	29%
Compression Set, Method B 22 hours at 70°C	27%

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

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Chemline, Inc. • 5151 Natural Bridge Ave. • St. Louis, MO 63115 • Phone: (314) 664 - 2230  
• 19500 S. Alameda St. • Los Angeles, CA 90221 • Phone: (310) 764 - 0820

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