



# Chemline ST950

## TDI-Polyester Hot Cast Prepolymer

### Description

**Chemline ST950** is a TDI/polyester-based prepolymer. Curing with MBCA yields a 95-97 Shore A (50-52 Shore D) elastomer highlighted by:

- ✓ Excellent cut/tear strength
- ✓ High load-bearing capability
- ✓ Good oil & solvent resistance
- ✓ Excellent sliding abrasion resistance

### Packaging, Storage, & Shelf Life

**Chemline ST950** 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 ST950**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Solid
%NCO	5.6-6.0
Viscosity	
70°C (158°F)	1920 cps
82°C (180°F)	1020 cps
100°C (212°F)	475 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	93°C (199°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 5.88% NCO)	17.8 pph
Mold Temperature	100°C (212°F)
Pot Life	3 Minutes
Post Cure Time	12 hours at 100°C (212°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore	95-97 A / 50-52 D
100% Modulus	1400 psi (9.7 MPa)
200% Modulus	2150 psi (14.8 MPa)
300% Modulus	3090 psi (21.3 MPa)
Tensile Strength	6800 psi (46.9 MPa)
Elongation	465%
Die C Tear Strength	510 pli (89.3 kN/m)
Bashore Rebound	36%

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

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