



# Chemline ST730

## TDI-Polyester Hot Cast Prepolymer

### Description

**Chemline ST730** is a TDI/polyester-based prepolymer. Curing with MBCA yields a 71-75 Shore A elastomer highlighted by:

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

### Packaging, Storage, & Shelf Life

**Chemline ST730** 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 ST730**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	2.55-2.70%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	990 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	90°C (190°F)
MBCA Temperature	116°C (240°F)
MBCA Level (95% stoichiometry, 2.65% NCO)	8.0 pph
Mold Temperature	100°C (212°F)
Pot Life	4 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore A	71-75 A
100% Modulus	380 psi (2.6 MPa)
200% Modulus	490 psi (3.4 MPa)
300% Modulus	720 psi (5.0 MPa)
Tensile Strength	4500 psi (31.0 MPa)
Elongation	740%
Die C Tear Strength	270 pli (47.3 kN/m)
Split Tear	135 pli (23.6 kN/m)
Bashore Rebound	45%

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

Revised 07/2017

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