



# Chemline ET760

## TDI-Polyether Hot Cast Prepolymer

### Description

**Chemline ET760** is a TDI/polyether-based prepolymer. Curing with MBCA yields a 74-77 Shore A elastomer highlighted by:

- √ High resilience
- √ Excellent impingement abrasion resistance
- √ Good hydrolytic stability
- √ Resistant to microbial attack

### Packaging, Storage, & Shelf Life

**Chemline ET760** 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 ET760**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	2.40-2.60%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	1150-1500 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	85°C (185°F)
MBCA Temperature	116°C (240°F)
MBCA Level (95% stoichiometry, 2.47% NCO)	7.45 pph
Mold Temperature	100°C (212°F)
Pot Life	8-9 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 100°C (212°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore A	74-77 A
100% Modulus	460 psi (3.2 MPa)
200% Modulus	620 psi (4.3 MPa)
300% Modulus	900 psi (6.2 MPa)
Tensile Strength	3900 psi (26.9 MPa)
Elongation	550%
Die C Tear Strength	290 pli (50.8 kN/m)
Trouser Tear	77 pli (13.5 kN/m)
Bashore Rebound	64%

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

Revised 08/2017

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

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA, OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Chemline, Inc. hereunder are provided gratis and Chemline assumes no obligation or liability for the descriptions, designs, data and information given or results obtained, all such being given and accepted at your risk.