



# Chemline EM950

## MDI-PTMEG Hot Cast Prepolymer

### Description

**Chemline EM950** is an MDI/PTMG-based prepolymer. Curing with 1,4 butanediol yields 95 Shore A high-performance elastomers highlighted by:

- √ Superior impingement abrasion resistance
- √ Excellent hydrolysis resistance (acid/base, aqueous solutions and slurries)
- √ High Resilience
- √ Low temperature flexibility
- √ Resistance to attack by micro-organisms

### 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 EM950**.

### Packaging, Storage, & Shelf Life

**Chemline EM950** 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.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	8.65-9.05%
Viscosity	
70°C (158°F)	1170 cps
82°C (180°F)	745 cps
100°C (212°F)	425 cps

### Typical Processing Conditions

Property	Value
Prepolymer Temperature	85°C (185°F)
1,4 Butanediol Temperature	40°C (104°F)
1,4 Butanediol Level (95% stoichiometry, 8.9% NCO)	9.05 pph
Mold Temperature	100°C (212°F)
Pot Life	3-4 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 110°C (230°F)

### Cured Elastomer Properties

Property	Value
Hardness, Shore A	95 A
100% Modulus	1800 psi (9.0 MPa)
200% Modulus	2400 psi (16.5 MPa)
300% Modulus	3175 psi (21.9 MPa)
Tensile Strength	5200 psi (35.9 MPa)
Elongation	420%
Die C Tear Strength	600 pli (105 kN/m)
Bashore Rebound	63%
Specific Gravity	1.09

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

Revised 05/2017

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.