



Chemline PT850

TDI-Polyether Hot Cast Prepolymer

Description

Chemline PT850 is a TDI/PPG-based prepolymer. Curing with MBCA yields a 85 Shore A elastomer highlighted by:

- √ Liquid at room temperature
- √ Good abrasion resistance and toughness
- √ High impact absorption

Packaging, Storage, & Shelf Life

Chemline PT850 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 PT850**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Clear, amber liquid
%NCO	4.00-4.40%
Viscosity	
70°C (158°F)	410 cps
82°C (180°F)	240 cps
100°C (212°F)	130 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	66°C (150°F)
MBCA Temperature	115°C (240°F)
MBCA Level (90% stoichiometry, 4.28% NCO)	12.2 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	85 A
100% Modulus	710 psi (4.9 MPa)
200% Modulus	990 psi (6.8 MPa)
300% Modulus	1305 psi (9.0 MPa)
Tensile Strength	2900 psi (20.0 MPa)
Elongation	530%
Die C Tear Strength	280 pli (49.0 kN/m)
Bashore Rebound	30%

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

Revised 04/2017

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.