



Chemline EM800

MDI-PTMEG Hot Cast Prepolymer

Description

Chemline EM800 is an MDI/PTMG-based prepolymer. Curing with 1,4 butanediol yields 78 Shore A high-performance elastomers highlighted by:

- √ Superior impingement abrasion resistance
- √ Excellent hydrolysis resistance (acid/base, aqueous solutions and slurries)
- √ High Resilience
- √ Excellent 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 EM800**.

Packaging, Storage, & Shelf Life

Chemline EM800 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	4.8-5.2%
Viscosity	
70°C (158°F)	3615 cps
82°C (180°F)	2330 cps
100°C (212°F)	1340 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	100C (212°F)
1,4 Butanediol Temperature	40°C (104°F)
1,4 Butanediol Level (95% stoichiometry, 4.96% NCO)	5.1 pph
Mold Temperature	110°C (230°F)
Pot Life	9-10 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 110°C (230°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	78 A
100% Modulus	470 psi (3.2 MPa)
200% Modulus	730 psi (5.0 MPa)
300% Modulus	1090 psi (7.5 MPa)
Tensile Strength	3200 psi (22.1 MPa)
Elongation	510%
Die C Tear Strength	290 pli (50.8 kN/m)
Trouser Tear	75 pli (13.1 kN/m)
Bashore Rebound	66%

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

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