



Chemline EM900

MDI-PTMEG Hot Cast Prepolymer

Description

Chemline EM900 is an MDI/PTMG-based prepolymer. Curing with 1,4 butanediol yields 90 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 EM900**.

Packaging, Storage, & Shelf Life

Chemline EM900 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	7.12-7.64%
Viscosity	
70°C (158°F)	1550 cps
82°C (180°F)	990 cps
100°C (212°F)	560 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, 7.55% NCO)	7.7 pph
Mold Temperature	100°C (212°F)
Pot Life	6-7 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 110°C (230°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	90
100% Modulus	1250 psi (8.6 MPa)
200% Modulus	1700 psi (11.7 MPa)
300% Modulus	2250 psi (15.5 MPa)
Tensile Strength	5000 psi (34.4 MPa)
Elongation	480%
Die C Tear Strength	545 pli (95.4 kN/m)
Bashore Rebound	64%
Compression Set, Method B 22 hours at 70°C	30%
Specific Gravity	1.09

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

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