



Chemline EM530D

MDI-PTMEG Hot Cast Prepolymer

Description

Chemline EM530D is an MDI/PTMG-based prepolymer. Curing with 1,4 butanediol yields 53 Shore D high-performance elastomers highlighted by:

- √ High load-bearing capacity
- √ 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 EM530D**.

Packaging, Storage, & Shelf Life

Chemline EM530D 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	Liquid
%NCO	10.90-11.50%
Viscosity	
70°C (158°F)	480 cps
82°C (180°F)	290 cps
100°C (212°F)	160 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	60°C (140°F)
1,4 Butanediol Temperature	Room Temperature
1,4 Butanediol Level (95% stoichiometry, 11.4% NCO)	11.6 pph
Mold Temperature	116°C (240°F)
Pot Life	3 minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 110°C (230°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore D	53 D
100% Modulus	2660 psi (18.3 MPa)
200% Modulus	3690 psi (25.4 MPa)
Tensile Strength	5380 psi (37.1 MPa)
Elongation	290%
Die C Tear Strength	600 pli (105 kN/m)
Bashore Rebound	43%

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

Revised 04/2017

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