



Chemline SM950

MDI-Polyester Hot Cast Prepolymer

Description

Chemline SM950 is an MDI/polyester-based prepolymer. Curing with 1,4 Butanediol yields a 95 Shore A elastomer highlighted by:

- √ Good oil and solvent resistance
- √ High cut/tear strength
- √ Superior abrasion resistance
- √ Low resilience

Packaging, Storage, & Shelf Life

Chemline SM950 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 SM950**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Viscous liquid
%NCO	9.20-9.60%
Viscosity	
70°C (158°F)	1100 cps
82°C (180°F)	600 cps
100°C (212°F)	300 cps

Typical Processing Conditions

Property	1,4 Butanediol
Prepolymer Temperature	68-79°C (155-175°F)
Curative Temperature	25°C (77°F)
Curative Level (96% stoichiometry, 9.45% NCO)	9.72 pph
Mold Temperature	115°C (240°F)
Pot Life	5-6 minutes
Post Cure Time	16 hours at 115°C (240°F)

Cured Elastomer Properties

Property	1,4 Butanediol
Hardness, Shore A	95 A
100% Modulus	1920 psi (13.2 MPa)
200% Modulus	2670 psi (18.4 MPa)
300% Modulus	3790 psi (26.1 MPa)
Tensile Strength	6280 psi (43.3 MPa)
Elongation	490%
Die C Tear Strength	690 pli (120.8 kN/m)
Trouser Tear	430 pli (75.3 kN/m)
Compression Set	34%
Bashore Rebound	23%

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

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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

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