



Chemline SM852

MDI-Polyester Hot Cast Prepolymer

Description

Chemline SM852 is a MDI/polyester-based prepolymer. Curing with 1,4 Butanediol yields an 85-86 Shore A elastomer highlighted by:

- √ Good oil and solvent resistance
- √ High cut/tear strength
- √ Superior abrasion resistance
- √ Liquid at room temperature

Packaging, Storage, & Shelf Life

Chemline SM852 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 SM852**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid to viscous liquid
%NCO	6.45-7.00%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	TBD

Typical Processing Conditions

Property	1,4 Butanediol
Prepolymer Temperature	90°C (200°F)
Curative Temperature	25°C (77°F)
Curative Level (95% stoichiometry, 6.8% NCO)	6.92 pph
Mold Temperature	115°C (240°F)
Pot Life	3-4 minutes
Post Cure Time	16 hours at 115°C (240°F)

Cured Elastomer Properties

Property	1,4 Butanediol
Hardness, Shore A	85-86 A
100% Modulus	900 psi (6.2 MPa)
200% Modulus	1240 psi (8.5 MPa)
300% Modulus	1770 psi (12.2 MPa)
Tensile Strength	7350 psi (50.7 MPa)
Elongation	540%
Die C Tear Strength	490 pli (85.8 kN/m)
Trouser Tear	195 pli (34.1 kN/m)
Compression Set	TBD
Bashore Rebound	43%

*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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