



# Chemline SM951

## MDI-Polyester Hot Cast Prepolymer

### Description

**Chemline SM951** 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
- √ Good load-bearing properties

### Packaging, Storage, & Shelf Life

**Chemline SM951** 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 SM951**.

### Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid to viscous liquid
%NCO	9.20-9.60%
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, 9.45% NCO)	9.61 pph
Mold Temperature	115°C (240°F)
Pot Life	3 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	1750 psi (12.1 MPa)
200% Modulus	2615 psi (18.0 MPa)
300% Modulus	4150 psi (28.6 MPa)
Tensile Strength	6880 psi (47.4 MPa)
Elongation	420%
Die C Tear Strength	680 pli (119.1 kN/m)
Trouser Tear	350 pli (61.3 kN/m)
Compression Set	30%
Bashore Rebound	30%

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

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