



Chemline PM951

MDI-PPG Hot Cast Prepolymer

Description

Chemline PM951 is an MDI/PPG-based prepolymer. Curing with 1,4 butanediol yields 95 Shore A high-performance elastomers highlighted by:

- ✓ High impact resistance
- ✓ Low viscosity
- ✓ Liquid at room temperature
- ✓ Good hydrolytic stability and environmental resistance

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 PM951**.

Packaging, Storage, & Shelf Life

Chemline PM951 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	Viscous liquid
%NCO	9.80-10.20%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	TBD

Typical Processing Conditions

Property	Value
Prepolymer Temperature	60°C (140°F)
1,4 Butanediol Temperature	Room temperature
1,4 Butanediol Level (95% stoichiometry, 9.9% NCO)	10.08 pph
Mold Temperature	115°C (240°F)
Pot Life	6 minutes
Demold Time	1 hour
Post Cure Time	12 hours at 240°F

Cured Elastomer Properties

Property	Value
Hardness, Shore A	94-95 A
100% Modulus	2100 psi (14.5 MPa)
200% Modulus	3580 psi (24.7 MPa)
300% Modulus	5340 psi (36.8 MPa)
Tensile Strength	5400 psi (37.2 MPa)
Elongation	305%
Die C Tear Strength	430 pli (75.3 kN/m)
Trouser Tear	95 pli (16.6 kN/m)
Bashore Rebound	33%

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

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