

Description

Chemline \$M920 is a MDI/Ester-based prepolymer. Curing with 1,4 Butanediol yields an 92-93 Shore A elastomer highlighted by:

- √ Excellent dynamic properties
- √ High resilience
- √ Superior fatigue resistance
- √ Good cut/tear properties

Packaging, Storage, & Shelf Life

Chemline SM920 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 SM920**.

Chemline SM920

MDI-Ester Hot Cast Prepolymer

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	7.70-8.10%
Viscosity	
70°C (158°F)	1954 cps
82°C (180°F)	1175 cps
100°C (212°F)	620 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	96°C (205°F)
1,4 Butanediol Temperature	30°C (86°F)
1,4 Butanediol Level (95% stoichiometry, 7.90% NCO)	8.04 pph
Mold Temperature	110°C (230°F)
Pot Life	3-4 Minutes
Demold Time	60 minutes
Post Cure Time	16 hours at 110°C (230°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	92-93
100% Modulus	1200 psi (8.3 MPa)
200% Modulus	1800 psi (12.4 MPa)
300% Modulus	2800 psi (19.3 MPa)
Tensile Strength	6700 psi (46.2 MPa)
Elongation	460%
Die C Tear Strength	480 pli (84.1 kN/m)
Bashore Rebound	51%
Specific Gravity	1.20

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

Revised 10/2017

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