



Chemline PH940

Aliphatic Isocyanate Polyether Hot Cast Prepolymer

Description

Chemline PH940 is an aliphatic isocyanate polyether prepolymer. Curing with DETDA yields 94 Shore A high-performance elastomers highlighted by:

- √ Good UV stability
- √ Liquid at room temperature
- √ Good hydrolysis resistance (acid/base, aqueous solutions and slurries)

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 PH940**.

Packaging, Storage, & Shelf Life

Chemline PH940 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	5.30-5.70%
Viscosity	
70°C (158°F)	1765 cps
82°C (180°F)	950 cps
100°C (212°F)	495 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	71°C (160°F)
DETD A Temperature	21°C (70°F)
DETD A Level (95% stoichiometry, 5.55% NCO)	11.2 pph
Mold Temperature	115°C (240°F)
Pot Life	5 minutes
Post Cure Time	16 hours at 115°C (240°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	94 A
100% Modulus	1490 psi (10.3 MPa)
200% Modulus	2440 psi (16.8 MPa)
300% Modulus	3900 psi (26.9 MPa)
Tensile Strength	5180 psi (35.7 MPa)
Elongation	350%
Die C Tear Strength	310 pli (54.3 kN/m)
Bashore Rebound	37%

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

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