



Chemline CT830

TDI-Polycaprolactone Prepolymer

Description

Chemline CT830 is a TDI/polycaprolactone-based prepolymer. Curing with MBCA yields a 83 Shore A elastomer highlighted by:

- √ Superior dynamic properties
- √ Excellent abrasion resistance
- √ Good high temperature properties
- √ Good resistance to solvents and oil

Packaging, Storage, & Shelf Life

Chemline CT830 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 CT830**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Waxy solid
%NCO	3.60-4.00%
Viscosity	
70°C (158°F)	TBD
82°C (180°F)	TBD
100°C (212°F)	TBD

Typical Processing Conditions

Property	Value
Prepolymer Temperature	85°C (185°F)
MBCA Temperature	116°C (240°F)
MBCA Level (100% stoichiometry, 3.80% NCO)	11.5 pph
Mold Temperature	100°C (212°F)
Pot Life	4 minutes
Demold Time	60 minutes
Post Cure Time	8 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore A	83 A
100% Modulus	600 psi (4.1 MPa)
200% Modulus	775 psi (5.3 MPa)
300% Modulus	1050 psi (7.2 MPa)
Tensile Strength	5650 psi (39.0 MPa)
Elongation	640%
Die C Tear Strength	410 pli (71.8 kN/m)
Split Tear	200 pli (35.0 kN/m)
Bashore Rebound	47%

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

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