



Chemline PT650D

TDI-PPG Hot Cast Prepolymer

Description

Chemline PT650D is a TDI/PPG-based prepolymer. Curing with MBCA yields a 65 Shore D elastomer highlighted by:

- √ Liquid at room temperature
- √ High modulus and static load-bearing capability
- √ Good hydrolytic stability

Packaging, Storage, & Shelf Life

Chemline PT650D 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 PT650D**.

Liquid Prepolymer Properties

Property	Value
Physical State at 25°C	Clear, amber liquid
%NCO	6.05-6.35%
Viscosity	
70°C (158°F)	2950 cps
82°C (180°F)	1300 cps
100°C (212°F)	550 cps

Typical Processing Conditions

Property	Value
Prepolymer Temperature	82°C (180°F)
MBCA Temperature	115°C (240°F)
MBCA Level (95% stoichiometry, 6.30% NCO)	19.0 pph
Mold Temperature	100°C (212°F)
Pot Life	3 minutes
Demold Time	30 minutes
Post Cure Time	16 hours at 100°C (212°F)

Cured Elastomer Properties

Property	Value
Hardness, Shore D	65 D
100% Modulus	3200 psi (22.1 MPa)
200% Modulus	4170 psi (28.8 MPa)
300% Modulus	5325 psi (36.7 MPa)
Tensile Strength	5525 psi (38.1 MPa)
Elongation	305%
Die C Tear Strength	615 pli (107.7 kN/m)
Bashore Rebound	50%

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

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