



Chemline ET911

TDI-Polyether Hot Cast Prepolymer

Description

Chemline ET911 is a TDI/polyether-based prepolymer. Curing with MBCA yields a 91 Shore A elastomer highlighted by:

- √ High resilience
- √ Excellent impingement abrasion resistance
- √ Good low temperature properties
- √ Excellent load-bearing capacity
- √ Good hydrolytic stability

Packaging, Storage, & Shelf Life

Chemline ET911 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 ET911**.

Liquid Prepolymer Properties

| Property | Value |
|------------------------|------------|
| Physical State at 25°C | Waxy solid |
| %NCO | 3.95-4.55 |
| Viscosity | |
| 70°C (158°F) | TBD |
| 82°C (180°F) | TBD |
| 100°C (212°F) | 550 cps |

Typical Processing Conditions

| Property | Value |
|--|---------------------------|
| Prepolymer Temperature | 100°C (212°F) |
| MBCA Temperature | 116°C (240°F) |
| MBCA Level (95% stoichiometry, 4.10% NCO) | 12.4 pph |
| Mold Temperature | 100°C (212°F) |
| Pot Life | 4-5 minutes |
| Demold Time | 45 minutes |
| Post Cure Time | 12 hours at 100°C (212°F) |

Cured Elastomer Properties

| Property | Value |
|---------------------|---------------------|
| Hardness, Shore A | 91 A |
| 100% Modulus | 1280 psi (8.8 MPa) |
| 200% Modulus | 1730 psi (11.9 MPa) |
| 300% Modulus | 2340 psi (16.1 MPa) |
| Tensile Strength | 5150 psi (35.5 MPa) |
| Elongation | 450% |
| Die C Tear Strength | 460 pli (80.6 kN/m) |
| Bashore Rebound | 48% |

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

Revised 1/2017

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