



# Chemline ET912

## TDI-Polyether Hot Cast Prepolymer

### Description

**Chemline ET912** 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 ET912** 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 ET912**.

### Liquid Prepolymer Properties

| Property               | Value      |
|------------------------|------------|
| Physical State at 25°C | Waxy solid |
| %NCO                   | 4.50-4.90  |
| Viscosity              |            |
| 70°C (158°F)           | 1160 cps   |
| 82°C (180°F)           | 750 cps    |
| 100°C (212°F)          | 735 cps    |

### Typical Processing Conditions

| Property                                     | Value                     |
|--|---------------------------|
| Prepolymer Temperature                       | 70°C (158°F)              |
| MBCA Temperature                             | 116°C (240°F)             |
| MBCA Level<br>(95% stoichiometry, 4.82% NCO) | 14.6 pph                  |
| Mold Temperature                             | 100°C (212°F)             |
| Pot Life                                     | 3-4 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        | 1190 psi (8.2 MPa)  |
| 200% Modulus        | 1610 psi (11.1 MPa) |
| 300% Modulus        | 2200 psi (15.2 MPa) |
| Tensile Strength    | 4640 psi (32.0 MPa) |
| Elongation          | 445%                |
| Die C Tear Strength | 370 pli (64.8 kN/m) |
| Bashore Rebound     | 62%                 |

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

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