# Xthane IE-75

Modified Diphenylmethane Diisocyanate (MDI) Terminated Polyether Prepolymer

| Typical Properties of IE-75 Prepolymer | | | |
|---|---|---|---|
| | | | |
| NCO, % | 4.0 – 4.3% | Viscosity, mPa·s @ 80°C | 2880 |
| Specific Gravity @ 25°C | 1.2 | | |
| Appearance @ 25°C | White to yellow solid | Melting Point | 99°F (37°C) |

## Product Description:

Xthane IE-75 is an MDI terminated polyether prepolymer system for use in high resilience applications.
As with all polyurethane products, application and field testing by the user are necessary to determine suitability of the selected product or product combination for each specific application.

| Typical Physical Properties using EXT-1006 | | | IE-75 |
|---|---|---|---|
| Hardness | Shore A | | 75 |
| Resilience | % Rebound | | 65 |
| Split Tear Strength | PLI | | 80 |
| Die C Tear Strength | PLI | | 340 |
| Tensile Strength | PSI | | 4200 |
| Ultimate Elongation | % | | 480 |
| 100% Modulus | PSI | | 600 |
| 200% Modulus | PSI | | - |
| 300% Modulus | PSI | | 1200 |
| Compression Set | % | | 17 |
| | | | |
| | | | |

## Storage and Handling:

Containers should be kept tightly closed to prevent moisture contamination. MDI will react with water to form polyureas and liberate $CO^2$ gas potentially causing containers to expand and rupture. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Storage for Xthane IE-75 should be maintained between ambient and 90°F (32°C). Exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture.

Do not breathe aerosol or vapors. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens. Avoid using drum heaters.

| Processing Characteristics using EXT-1006 | | | IE-75 |
|---|---|---|---|
| NCO Range | | | 4.0 – 4.3% |
| NCO / OH Ratio | | | 1.05 |
| Prepolymer Temperature | | | 175°F |
| B Component Temperature | | | 110°F |
| Mold temperature | | | 212°F |
| Pot Life | Minutes | | 25 - 30 |
| Demold Time | Minutes | | 120 - 180 |
| | | | |

## Health and Safety Information:

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your ITWC, Inc. representative.

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