

Xthane IE-90

Modified Diphenylmethane Diisocyanate (MDI) Terminated Polyether Prepolymer System

Typical Properties of IE-90 Prepolymer System			
NCO, %	7.1 – 7.4	Viscosity, mPa·s @ 80°C	1200
Specific Gravity @ 25°C	1.05		
Appearance @ 25°C	Clear to slightly opaque liquid		

Product Description:

Xthane IE-90 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.

Storage and Handling:

Containers should be kept tightly closed to prevent moisture contamination. MDI will react with water to form polyureas and liberate CO² 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-90 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.

Typical Physical Properties using EXT-1006			IE-90
Hardness	Shore A		90
Resilience	% Rebound		66
Split Tear Strength	PLI		90
Die C Tear Strength	PLI		410
Tensile Strength	PSI		4100
Ultimate Elongation	%		430
100% Modulus	PSI		1250
200% Modulus	PSI		-
300% Modulus	PSI		2450
Compression Set	%		15

Processing Characteristics using EXT-1006			IE-90
NCO Range			7.1 – 7.4%
NCO / OH Ratio			1.05
Prepolymer Temperature			170°F
B Component Temperature			110°F
Mold temperature			220°F
Pot Life	Minutes		6 - 9
Demold Time	Minutes		40

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.