



PRODUCT DATA SHEET

UI - 5380

LIQUID CASTABLE ELASTOMER 38 SHORE A

1. PRODUCT

PRODUCT DESCRIPTION: UI-5380 is a two-component, polyether-based liquid urethane casting system which has been specifically designed for production applications requiring short demolding times, yet with a sufficiently lengthy gel time to enable use of non-RIM dispensing equipment. Both product components are liquid at room temperature; the system contains no TDI or MOCA.

KEY FEATURES:

- Good Hydrolytic Stability
- Good Abrasion Resistance
- Excellent Clarity

SUGGESTED APPLICATIONS:

- Abrasion-Resistant Parts
- Electronic Component Encapsulation
- Elastomeric Molds
- Gaskets
- Vibration Mountings

SHELF LIFE: Shelf life of UI-5380 is one (1) year from date of manufacture, providing it is stored in a cool, dry place in unopened containers.

STANDARD COLOR: Rocket Red.

STANDARD PACKAGING:

- 5 Gallon Pail Packs
- 55 Gallon Drum Packs

2. GENERAL PROCESSING INFORMATION

PROCESSING TEMPERATURES: The higher the temperatures, the faster the reaction rates. Reaction rates are influenced by the temperature of the components and mold, the size of the batch being processed, the shape of the cavity being filled and the ambient conditions.

SURFACE PREPARATION FOR MOLDS: Porous surfaces, i.e., wood and plaster, in contact with UI-5380 must be well sealed with a urethane compatible sealer. An acrylic sealer is generally used. Allow final sealer coat to dry for 30-45 minutes and apply a suitable release agent.

MOLD RELEASE AGENTS: The user must perform all pertinent tests in order to determine the suitability of those products in the particular application. Silicone type release agents such as UI-9900 can be used where neither adhesion nor paintability of the molded part is required. A non silicone type release agent may be used where paintability of the molded part is required. Frequent mold cleaning may be necessary to prevent mold release agent build up.

WEIGHT RATIO: Must be maintained within $\pm 2.0\%$. Deviation from the ratio and processing conditions recommended herein will alter the properties of this product.

MAINTENANCE AND CLEAN UP: Clean up of the automatic mixing equipment can be performed with the use of a non-flammable cleaning solvent, such as Methylene Chloride. Methylene Chloride is a hazardous chemical, therefore, chemical data, legislative acts, regulatory guidelines and manufacturer's precautions must be read and understood before use.

STORAGE SAFETY AND HANDLING: Store UI-5380 in a cool area. Avoid storage temperatures above 85°F and below 50°F. In case of skin contact, wash immediately with soap and water. Wash contaminated clothing before reuse. In case of eye contact, flush eyes immediately with water and immediately contact physician. Do not re-seal isocyanate containers which have become moisture contaminated. Sealing moisture contaminated containers will trap the generated carbon dioxide from the chemical reaction of the water with the isocyanate. This will create dangerous pressures in the sealed containers, which may rupture explosively.

PRECAUTIONS: Normal handling precautions must be exercised. Use in a well ventilated area and wash hands before eating or smoking. Personnel handling UI-5380 must wear protective gloves, glasses and clothing. Do not burn UI-5380, as it will release toxic vapors. Read Material Safety Data Sheet before using.

TECHNICAL SERVICE: Technical assistance is available by contacting Preformed Line Products' Technical Service Department.

3. WARRANTY

The statements made herein are based on our research and the research of others and are believed to be accurate. No guarantee of their accuracy is made, however. Neither the seller nor the manufacturer has any knowledge or control concerning the purchaser's use of the product. No express warranty is made by the seller or the manufacturer with respect to the results of any use of the product. Neither seller nor manufacturer as-

sumes any liability for personal injury, loss or damage resulting from the use of the product. In the event that the product shall prove defective, the buyer's exclusive remedy shall be repayment of the purchase price, or, at the manufacturer's option, replacement of the non-conforming product. The buyer expressly waives any claim to additional damages, including consequential damages. Warranty claims are void unless made in writing within thirty (30) days after purchase. Warranty runs exclusively to the benefit of the original buyer.

4. PHYSICAL PROPERTIES (TYPICAL)

PROPERTY	RESULT	TEST METHOD
Gel Time (seconds @ 100°F)	30-40	---
Demold Time @ 140-160°F, seconds	90-120	---
Tensile Strength, psi	200	ASTM D412
Elongation %,psi	340	ASTM D412
Tear Strength, pli	40	ASTM D624
Abrasion Resistance, mg/1000revs	18.1	Tabor CS-17
Solids, %	100	---