

## 70D Polyether

70 shore D polyurethane

### Key Properties

- Excellent physical properties after RT cure
- Free of mercury, MOCA or TDI

### Applications

- For room temperature hand-batch or vacuum assisted processing

### Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	100	100
		pbv	94	100
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.17	ca. 1.10
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 45	ca. 500

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 150
Gel time at 77°F (25°C)		min	10-16
Demold time at 77°F (25°C)		h	2-4

### Cured / Mechanical Properties (approximate values)

Cure 1: 7 days at 77°F			Cure 1
Aspect	visual		White
Density	ASTM D-792	g/cm <sup>3</sup>	1.08
Shore hardness D	ASTM D-2240		70-80
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	140 (60)
Tensile strength	ASTM D-638	psi	5,100
Elongation at Break	ASTM D-638	%	10
Flexural strength	ASTM D-790	psi	9,800
Flexural modulus	ASTM D-790	psi	240,000
Notched Izod	ASTM D-256	ft·lbf/in	0.6
Linear shrinkage	ASTM D-2566	in/in	0.003

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### Processing

**The processing and material temperature should be between 68-77°F (20-25°C).**

For best results, de-air the material prior to casting, then pressurize to 60 psi until cured. If pigment has been added to the to the hardener component, It will separate during storage.

**Agitate hardener before mixing to ensure that the formula is homogeneous.**

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### Packaging

IE-3068 Quart Kit	4 lbs.
IE-3068 1 Gal. Kit	16 lbs.
IE-3068 5 Gal. Kit	80 lbs.
IE-3068 Drum Kit	900 lbs.

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### Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label.

Partly used containers should always be sealed appropriately and used up as soon as possible.

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### Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

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