

90A Polyether

Tough, semi-flexible polyurethane elastomer

Key Properties

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

Applications

- For hand-batch or vacuum assisted processing

Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	38	100
		pbv	33	100
Density	ASTM D-792	g/cm ³	ca. 1.20	ca. 1.04
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 100	ca. 1,500

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 975
Gel time at 77°F (25°C)		min	7-13
Demold time at 77°F (25°C)		h	4-8

Cured / Mechanical Properties (approximate values)

Cure 1: 7 days at 77°F

			Cure 1
Aspect	visual		Cream
Density	ASTM D-792	g/cm ³	1.12
Shore hardness A	ASTM D-2240		80-90
Tensile strength	ASTM D-638	psi	1,750
Elongation at Break	ASTM D-638	%	180
Tear strength	ASTM D-624	pli	215
Linear shrinkage	ASTM D-2566	in/in	0.001-0.005

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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 hardener component, it will separate during storage.

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

Packaging

IE-3290 Quart Kit	2.76 lbs.
IE-3290 1 Gal. Kit	11.04 lbs.
IE-3290 5 Gal. Kit	55.2 lbs.
IE-3290 Drum Kit	621 lbs.

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.

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.
