

## FDA Code Approved 50A Polyether

Soft, flexible polyurethane elastomer

### Key Properties

- Excellent physical properties after RT cure
- Free of mercury, MOCA or TDI
- Raw materials meet FDA code standards

### Applications

- For hand-batch processing
- FDA CFR 177.1680
- FDA CFR 177.105
- FDA CFR 177.2600

### Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	16	100
		pbv	14	100
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.22	ca. 1.04
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 700	ca. 850

  

			Mixture	
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 775	
Gel time at 77°F (25°C)		min	9-15	
Demold time at 77°F (25°C)		h	4-8	

### Cured / Mechanical Properties (approximate values)

#### Cure : 7 days at 77°F

			Cure
Aspect	visual		White
Density	ASTM D-792	g/cm <sup>3</sup>	1.05
Shore hardness A	ASTM D-2240		45-55
Tensile strength	ASTM D-638	psi	200
Elongation at break	ASTM D-638	%	100
Tear strength	ASTM D-624	pli	25
Linear shrinkage	ASTM D-2566	in/in	0.003-0.007

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### Processing

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

This system has been designed to ease the release of mixed air without degassing or pressure. However, for best results, de-air the material prior to casting, then pressurize to 60 psi. IE-3277 is compounded using only materials that meet or exceed the standards for CFR 177.1680 and 21 CFR 175.105 for dry food contact. It also complies with 21 CFR 177.2600 for use in food manufacturing, packing, processing, preparing, treating, transporting, or holding food. This product has not been tested by the FDA, but meets the code standards as supplied by the FDA.

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

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### Packaging

IE-3257 Quart Kit	2.32 lbs.
IE-3257 1 Gal. Kit	9.28 lbs.
IE-3257 5 Gal. Kit	46.4 lbs.
IE-3257 Drum Kit	522 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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