

## 60A / Electrical Encapsulant

Tough, abrasion resistant elastomer

### Key Properties

- Excellent electrical properties, hydrolytic stability, and flexibility at low temperatures
- Excellent physical properties
- Free of mercury, MOCA or TDI

### Applications

- For room temperature hand-batch processing

### Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	60	100
		pbv	51	100
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.09	ca. 0.93
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 50	ca. 5,200

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 2,000
Gel time at 77°F (25°C)		min	16-20
Demold time at 77°F (25°C)		h	3-5

### Cured / Mechanical Properties (approximate values)

#### Cure 1: 24 hours at 77°F + 16 hours at 160°F

			Cure 1
Aspect	visual		Light Amber
Density	ASTM D-792	g/cm <sup>3</sup>	0.95
Shore hardness A	ASTM D-2240		55-65
Tensile strength	ASTM D-638	psi	450
Elongation at Break	ASTM D-638	%	165
Tear strength	ASTM D-624	pli	65
Volume Resistivity	ASTM D-270	Ω-CM	2.0 x 10 <sup>16</sup>
Surface Resistivity	ASTM D-270	Ω-CM	2.8 x 10 <sup>16</sup>
Dielectric Strength (25°C)	ASTM D-149	V/MIL	570
Dielectric Constant (25°C)	ASTM D-150		2.4
Dissipation Factor (1 kHz, 25°C)	ASTM D-150		0.014

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### Processing

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

IE-3600 is ideal for use in many electrical applications including cryogenic potting, ballasts, transformers, and circuit embedment.

**Agitate the resin before mixing to ensure a homogenous formulation.**

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### Packaging

IE-3600 Quart Kit	2.8 lbs.
IE-3600 1 Gal. Kit	11.2 lbs.
IE-3600 5 Gal. Kit	56 lbs.
IE-3600 Drum Kit	640 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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