

## 80A Polyether / White

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               | 35                 | 100               |
|                          |             | pbv               | 30                 | 100               |
| Density                  | ASTM D-792  | g/cm <sup>3</sup> | 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      |                   | White       |
| Density                | ASTM D-792  | g/cm <sup>3</sup> | 1.09        |
| Shore hardness A       | ASTM D-2240 |                   | 75-85       |
| Tensile strength       | ASTM D-638  | psi               | 1,700       |
| Elongation at Break    | ASTM D-638  | %                 | 250         |
| Tear strength          | ASTM D-624  | pli               | 180         |
| 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.**

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## Packaging

|                        |            |
|------------------------|------------|
| IE-3280 100 Quart Kit  | 2.7 lbs.   |
| IE-3280 100 1 Gal. Kit | 10.8 lbs.  |
| IE-3280 100 5 Gal. Kit | 54 lbs.    |
| IE-3280 100 Drum Kit   | 607.5 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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