**Product Name**

**IE-40A**

40A Polyether

**Description**

IE-40A is an elastic polyether system formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. IE-40A is ideal for color matching due to its neutral color.

**Physical Properties**

| Mix Ratio | Resin:Hardener (parts by weight) | 100:95 |
| Mix Ratio | Resin:Hardener (parts by volume) | 100:100 |
| Viscosity | Resin | 625 | Gel Time | 25 ± 5 Minutes |
| (cps@77˚F) | Hardener | 1700 | Demold Time* | 16 ± 4 Hours |
| | Mixed | 950 | Color | Off White |
| Specific Gravity | Resin | 1.16 | * Demold time is always mass dependant |
| (g/cc) | Hardener | 1.10 |

**Cured Properties**

| Method | Cure 1 | Cure 2 |
| Hardness (shore A) | ASTM D-2240 | 37 ± 5 | 37 ± 5 |
| Tensile Strength (psi) | ASTM D-638 | 505 | 900 |
| Elongation at Break | ASTM D-638 | 400% | 600% |
| Tear Strength (pli) | ASTM D-624 | 75 | 65 |
| Linear Shrink (in./in.) | ASTM D-2566 | .001-.003 | .001-.003 |
| Specific Gravity (g/cc) | | 1.10 | 1.10 |
**Processing Notes**

Due to the color variation with a component in the hardener, the color of the system may vary. The natural color is very light, and is easily pigmented to overcome any variation. IE-40A may be inhibited by certain silicone rubbers. It is recommended that a test sample be prepared to verify compatibility. However, we have verified that this material does cure well in Silicones, Inc. platinum and tin cured systems. Contact your Innovative Polymers, Inc. for more information.

**Agitate the hardener before mixing to ensure the formula is homogenous.**

**Kit Weights**

<table>
<thead>
<tr>
<th></th>
<th>Quart Kits</th>
<th>1 Gal. Kit</th>
<th>5 Gal. Kit</th>
<th>Drum Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.9 lbs.</td>
<td>15.6 lbs.</td>
<td>78 lbs.</td>
<td>877.5 lbs.</td>
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</tbody>
</table>

**Safety and Handling**

DO NOT USE UNTIL MSDSs HAVE BEEN READ AND UNDERSTOOD. Store containers in a dry location. Partially used containers should be blanketed with dry nitrogen to prevent moisture contamination. Moisture will react with the resin component, creating carbon dioxide gas and a possible pressure increase in the container.

SPECIFICATION WRITERS: The above values are meant to represent typical properties only. Users are encouraged to qualify products in their own laboratories prior to specification publication.

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