

InnoClear™ OC-5070

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

OC-5070 is a water clear, semi-flexible polyurethane elastomer formulated for hand-batch or vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI OC-5070 is low viscosity and uses materials that have excellent U.V. resistant qualities.

| General Information | | | |
|--------------------------|--------------------------|-------|-------------|
| Features | Good UV Resistance | | |
| | Low Viscosity | | |
| RoHS Compliance | RoHS Compliant | | |
| Appearance | Clear/Transparent | | |
| Processing Method | Vacuum Casting | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | | | |
| Cured | 1.07 | g/cm³ | |
| Base Resin | 1.07 | g/cm³ | |
| Hardener | 1.09 | g/cm³ | |
| Molding Shrinkage - Flow | 0.10 to 0.50 | % | ASTM D2566 |
| Thermoset | Nominal Value | Unit | Test Method |
| Thermoset Components | | | |
| | Mix Ratio by Volume: 100 | | |
| | | | |
| Hardener | Mix Ratio by Weight: 100 | | |
| | Mix Ratio by Weight: 60 | | |
| | | | |
| Resin | Mix Ratio by Volume: 59 | | |
| Demold Time | 240 to 480 | min | |
| Uncured Properties | Nominal Value | Unit | Test Method |
| Viscosity | | | |
| 25°C ¹ | 0.20 | Pa·s | |
| 25°C ² | 0.70 | Pa·s | |
| 25°C ³ | 0.80 | Pa·s | |
| Curing Time ⁴ | 40 | hr | |
| Gel Time | 12 to 18 | min | |
| Cured Properties | Nominal Value | Unit | Test Method |

| | | | |
|-----------------------------|----------|------|------------|
| Shore Hardness (Shore A) | 65 to 75 | | ASTM D2240 |
| Tensile Strength | 3.45 | MPa | ASTM D638 |
| Tensile Elongation at Break | 75 | % | ASTM D638 |
| Tear Strength | 7.88 | kN/m | ASTM D624 |

NOTE

- | | |
|----|--------------------------------------|
| 1. | Resin |
| 2. | Mixed |
| 3. | Hardener |
| 4. | 24 hours at 77°F + 16 hours at 150°F |

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