

**URS 4375****HIGH MODULUS, CLEAR POLYURETHANE CASTING SYSTEM****75 SHORE D****DESCRIPTION**

**URS 4375** is a ridged, clear polyether based urethane casting system designed for clear-see through potting or casting applications. **URS 4375** provides excellent hydrolytic and UV stability while maintaining its' physical characteristics to -40deg F. Applications include see through potting of electrical components, items for encapsulation protection & thick shell coatings.

**FEATURES**

Clear/see through  
 High Impact Strength  
 Excellent Tensile Strength  
 No MOCA or TDI  
 Hand or Machine Processing  
 Outstanding Oil Resistance

**LIQUID****PROPERTIES****POL 1000B****ISO 210A****MIXED**

|                   |               |                  |                  |
|-------------------|---------------|------------------|------------------|
| Appearance        | Clear Liquid  | Clear Liquid     | Clear Liquid     |
| Viscosity (cps)   | 400-600 (77F) | 1300-2200 (77 F) | 1100-1200 (77 F) |
| Density (lbs/gal) | 8.55-8.65     | 9.20-9.40        | 8.90-9.00        |

**PHYSICAL PROPERTIES**

|                                 |      |
|---------------------------------|------|
| Hardness, Shore D               | 75   |
| Modulus , psi, 100%             | 4015 |
| Tensile Strength, Ultimate, psi | 7100 |
| Elongation, %,                  | 240  |
| Tear Strength, lbs / in         | 130  |
| Compression Set , Method B      | 36   |

## **URS 4375 Cont:**

### **PROCESSING PARAMETERS**

Process polyol 1000B at 60 to 160 degrees F.

Melt Isocyanate 210A if frozen at 100 degrees F., otherwise use at 60-160 degrees F.

Mold Temperature: 60 to 160 degrees F.

Mix ratio: 100.00 parts Polyol 1000B to 120.00 parts Isocyanate 210A by weight.

Degas mixture if possible or pre-degas Polyol in dispensing equipment prior to casting.

Pot life: (200g mass) (77 degrees F) 15 to 25 minutes.

Demold: 1 - 2 hours or 30 – 45 minutes with maximum process and mold temperature .  
Catalyst may also be used to shorten demold time.

NOTE: if catalyst is used it must also conform to appropriate FDA sections.

Post Cure: 16-24 hours @ 140 degrees F.

### **STORAGE**

Systems should be stored unopened in air tight containers at 60-90 degrees F. Partially emptied containers should be swept free of atmospheric moisture with dry nitrogen before sealing.

### **HANDLING PRECAUTIONS**

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.