

**URS 2050**

Revised 7/29/13

**HIGH STRENGTH, LOW DUROMETER POLYURETHANE SYSTEM**

**50 SHORE A**

**DESCRIPTION**

**URS 2050** is a medium viscosity polyester based urethane casting system with excellent low durometer characteristics. **URS 2050** is designed for applications requiring high flexibility and good cut tear resistance with excellent machining qualities when filler is added. Applications include rollers, bumpers, stripers, sound damping parts, flexible molds, etc.

**FEATURES**

High Flexibility  
Excellent Machining Qualities  
Excellent Oil and Solvent Resistance  
High Tear Strength  
No MOCA or TDI

**LIQUID**

**PROPERTIES**

**POL 524B**

**ISO 160A**

**MIXED**

|                   |                 |               |                 |
|-------------------|-----------------|---------------|-----------------|
| Appearance        | Amber Liquid    | Amber Liquid  | Amber Liquid    |
| Viscosity (cps)   | 5000-6000 (77F) | 500-100 (77F) | 4500-4900 (77F) |
| Density (lbs/gal) | 9.60-9.80       | 10.0-10.2     | 9.70-9.80       |

**PHYSICAL PROPERTIES**

|                                 |      |
|---------------------------------|------|
| Hardness, Shore A               | 50   |
| Modulus, psi, 100%              | 240  |
| 200%                            | 325  |
| 300%                            | 500  |
| Tensile Strength, Ultimate, psi | 4000 |
| Elongation, %                   | 500  |
| Tear Strength "Die C" lbs/in    | 200  |
| Bayshore Rebound, %             | 23   |

## **URS 2050 Continued:**

### **PROCESSING PARAMETERS**

Melt and process Polyol 524B at 100 to 150 degrees F.

If frozen, melt Isocyanate 160A at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 100 to 160 degrees F.

Mix Ratio: 100 parts Polyol 524B to 19.25 parts 160A by weight.

Degas mixture if possible or Pre-degas Isocyanate in dispensing equipment prior to casting.

Pot Life: (200g mass) (100F) 8 to 12 minutes.

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

Post Cure: 16 - 24 hours at 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 SHEETS have been read and understood.