

**URS 2050**

Revised 8/14/09

**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 520B**

**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 520B 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 520B to 14.00 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.