

**LOW DUROMETER POLYURETHANE CASTING SYSTEM**

**20 SHORE A**

**DESCRIPTION**

**URS 2020** is a medium viscosity polyester based urethane casting system with excellent low durometer characteristics. **URS 2020** is designed for applications requiring high flexibility along with excellent high filler loading properties . Applications include rollers, bumpers, pads, protective coverings,etc.

**FEATURES**

High Flexibility  
Excellent Oil And Solvent Resistance  
High Filler Loading Capabilities  
No MOCA or TDI  
Hand or Machine Processing

**LIQUID**

**PROPERTIES**

**POL 700B**

**ISO 970 A**

**MIXED**

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	6,000 – 9,000 (77F)	500 – 1,000 (77F)	5,500 - 8,000 (77F)
Density (lbs/gal)	8.60 – 8.70	9.40 - 9.70	8.75 – 8.95

**PHYSICAL PROPERTIES**

Hardness, Shore A	20
Modulus, psi, 100%	80
200%	115
300%	160
Tensile Strength, Ultimate, psi	500
Elongation, %	550
Tear Strength "Die C" lbs / in	85

## **URS 2020 Continued:**

### **PROCESSING PARAMETERS**

Melt and process polyol 700B at 120 to 160 degrees F.

If frozen, melt Isocyanate 970A at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 120 to 160 degrees F.

Mix Ratio: 100.00 parts Polyol 700B to 10.60 parts Isocyanate 970A by weight..

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

Pot Life: (200g mass) (100 F) 12 to 16 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.