

## URS 6140

### HIGH STRENGTH , LOW DUROMETER FDA APPROVED POLYURETHANE CASTING SYSTEM

#### 40 SHORE A

#### DESCRIPTION

**URS 6140** is a medium viscosity based urethane casting system with excellent low durometer characteristics and FDA approval. **URS 6140** is designed for applications requiring high flexibility and good cut tear resistance with excellent machining qualities when filler is added. Applications include rollers, bumpers, pads, stripers, sound damping parts, flexible molds, etc.

#### FEATURES

High Flexibility  
Excellent Oil And Solvent Resistance  
High Filler Loading Capabilities  
No MOCA or TDI  
Hand or Machine Processing  
Meets FDA 21 CFR Sec. 175.105 & 177.168

#### LIQUID

<u>PROPERTIES</u>	<u>POL 6050B</u>	<u>ISO 110A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	6500 - 8500 (77 F)	500-1000 (77 F)	5500 - 7500 (77 F)
Density (lbs/gal)	8.60 – 8.80	10.0 -10.2	8.80 – 9.00

#### PHYSICAL PROPERTIES

Hardness, Shore A	40
Modulus, psi 100%	160
200%	210
300%	320
Tensile Strength, Ultimate, psi	1230
Elongation, %	505
Tear Strength, "Die C" lbs / in	125

## **URS 6140 Cont:**

### **PROCESSING PARAMETERS**

Melt and process polyol 6050B at 80 to 150 degrees F.

Melt Isocyanate 110A if frozen at 100 degrees F., otherwise use at 70-85 degrees F.

Mold Temperature: 120 to 160 degrees F.

Mix ratio: 100.00 parts Polyol 6050B to 16.00 parts Isocyanate 110A by weight.

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

Pot life: (200g mass) (100 degrees F) 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.

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.