

## URS 2490

### HIGH PERFORMANCE POLYURETHANE CASTING SYSTEM

#### 90 SHORE A

#### DESCRIPTION

**URS 2490** is a high performance polyether based urethane casting system with extremely high wear, cut and tear resistance. **URS 2490** is recommended where gouging, cutting, tearing, sharp particles and sliding abrasion are common place. Applications include sand screws, classifier shoes, sizing screens, wear plates, oil housings, etc.

#### FEATURES

Outstanding Tensile Strength  
Superior Sliding Abrasion Resistance  
Superior Resistance To Water and Oil  
No MOCA or TDI  
Hand or Machine Processing  
Excellent Low Temperature Properties -40 Deg F

#### LIQUID

<u>PROPERTIES</u>	<u>POL 250B</u>	<u>ISO 110A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	1,000 – 2,000 (100 F)	500 – 1,000 (77 F)	800 – 1,200 (100 F)
Density (lbs/gal)	8.10 – 8.25	10.0 -10.2	8.85– 9.05

#### PHYSICAL PROPERTIES

Hardness, Shore A	90
Modulus, psi 100%	1050
200%	1710
300%	2800
Tensile Strength, Ultimate, psi	4900
Elongation, %,	375
Tear Strength, "Die C" lbs/in	490
Compression Set, Method B	30

Bayshore Rebound, %

40

## **URS 2490 Cont:**

### **PROCESSING PARAMETERS**

Melt and process polyol 250B at 100 to 150 degrees F.

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

Mold Temperature: 100 to 180 degrees F.

Mix ratio: 100.00 parts Polyol 250B to 70 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 10 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 @ 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.