

## URS 6275

### HIGH MODULUS, FDA APPROVED POLYURETHANE CASTING SYSTEM

#### 75 SHORE D

#### DESCRIPTION

**URS 6275** is a high modulus polyether based urethane system with FDA approval, good rigidity and excellent impact resistance. **URS 6275** is recommended for applications where stiffness and impact resistance are of consideration such as wheels, impact guards, food guide slots, support plates, feed bins, etc.

#### FEATURES

High Impact Strength  
Excellent Tensile Strength  
No MOCA or TDI  
Hand or Machine Processing  
Outstanding Oil Resistance  
Meets FDA 21 CFR Sec. 175.105 & 177.168

#### LIQUID

##### PROPERTIES

##### POL 4070B

##### ISO 110A

##### MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	200 - 500 (100F)	500-1000 (77 F)	400 - 800 (100 F)
Density (lbs/gal)	8.60 – 8.85	10.0 -10.2	9.30 – 9.50

#### PHYSICAL PROPERTIES

Hardness, Shore D	75
Modulus , psi, 100%	4450
Tensile Strength, Ultimate, psi	8110
Elongation, %,	240
Tear Strength, lbs / in	130
Compression Set , Method A	10
Impact Resistance ft-lbs / in	11
Linear Shrinkage D-2566 (1.125" Deep)	.05 in/in

## **URS 6275 Cont:**

### **PROCESSING PARAMETERS**

Melt and process polyol 4070B at 120 to 160 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 4070B to 100 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) 10 to 15 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.