

## URS 2275

### LOW VISCOSITY, ROOM TEMPERATURE POLYURETHANE POTTING OR MOLDING SYSTEM

#### 75 SHORE A

#### DESCRIPTION

**URS 2275** is a low viscosity polyether based urethane casting system with excellent room temperature molding properties. **URS 2275** is recommended for molding or potting and encapsulation of electronic devices where low viscosity and lack of heating sources are of consideration. Applications include lighting ballasts, transformers, flexible molds, rollers, etc.

#### FEATURES

Extremely Low Process Viscosity  
Outstanding Low Temperature Qualities  
Excellent Resistance To Water and Oils  
No MOCA or TDI  
Room Temperature Processing

#### LIQUID

##### PROPERTIES

##### POL 780B

##### ISO 160A

##### MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	400-1,100 (77 F)	100 – 500 (77 F)	500-1,000 (77 F)
Density (lbs/gal)	8.60 – 8.80	10.0 -10.2	9.10 – 9.30

#### PHYSICAL PROPERTIES

Hardness, Shore A		75	
Tensile Strength, Ultimate, psi		2450	
Elongation, %			425
Tear Strength, PLI		250	
Dielectric Constant (ASTM-D-150)			
1    K    Hz		4.90	
10   K    Hz		4.25	
Dissipation Factor (ASTM-D-150)			
1    K    Hz		.270	
10   K    Hz		.225	

## **URS 2275 Cont:**

### **PROCESSING PARAMETERS**

Process Polyol 780B at 65 to 90 degrees F.

Melt Isocyanate 160A if frozen at 100 degrees F., otherwise use at 70-85 degrees F.

Mold Temperature: 70 to 125 degrees F.

Mix ratio: 100.00 parts Polyol 780B to 58 parts Isocyanate 160A by weight.

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

Pot life: (200g mass) (77 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.

Post Cure: 24 hours @ 77 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.