

## URS 4880

### CLEAR POLYURETHANE CASTING SYSTEM

#### 80 SHORE A

#### DESCRIPTION

**URS 4880** is a flexible, clear polyether based urethane casting system designed for clear-see through potting or casting applications. **URS 4880** provides excellent hydrolytic and UV stability while maintaining its' physical characteristics to -40 Deg F. Applications include see through potting of electrical components, items for encapsulation protection & thick shell coatings.

#### FEATURES

Clear/see through  
High Impact Strength  
Good Tensile Strength  
No MOCA or TDI  
Hand or Machine Processing  
Outstanding Oil Resistance  
Superior Hydrolytic stability

#### LIQUID

##### PROPERTIES

##### POL 8090B

##### ISO 210A

##### MIXED

Appearance	Clear Liquid	Clear Liquid	Clear Liquid
Viscosity (cps)	200-300 (77F)	1300-2200cps (77 F)	800-1000cps (77F)
Density (lbs/gal)	8.55-8.65	9.20-9.40	8.90-9.00

#### PHYSICAL PROPERTIES

Hardness, Shore A	80
Tensile Strength, Ultimate, psi	1250
Elongation, %	475
Tear Strength "Die C" lbs / in	275

## **URS 4880 Cont:**

### **PROCESSING PARAMETERS**

Process polyol 8090B at 60 to 160 degrees F.

Melt Isocyanate 210A if frozen at 100 degrees F., otherwise use at 60 to 160 degrees F.

Mold Temperature: 60 to 160 degrees F.

Mix ratio: 100.00 parts Polyol 8090B to 90.00 parts Isocyanate 210A by weight.

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

Pot life: (200g mass) (77 degrees F) 15 to 25 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.