

**URS 2082**

**ABRASION RESISTANT POLYURETHANE SYSTEM**

**82 SHORE A**

**DESCRIPTION**

**URS 2082** is a medium viscosity polyester based urethane casting system with excellent dynamic and mechanical properties. **URS 2082** is designed for high abrasive applications where sliding and impinging types of abrasives are present as in, slurry pumps, sizing screens, chute liners, flotation components, etc.

**FEATURES**

Excellent Abrasion Resistance  
Excellent Oil and Solvent Resistance  
High Tear Strength  
No MOCA or TDI  
Superior Rebound

**LIQUID**

**PROPERTIES**

**POL 660B**

**ISO 160A**

**MIXED**

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	12,000-14,000 (90F)	100-500 (77 F)	7,000-10,000 (77 F)
Density (lbs/gal)	8.25-8.40	10.0 – 10.20	8.70-8.90

**PHYSICAL PROPERTIES**

Hardness, Shore A	82
Modulus, psi, 100%	975
200%	1250
300%	1680
Tensile Strength, Ultimate, psi	6800
Elongation %	490
Split Tear PLI	310
Bayshore Rebound, %	55

**Tabor Abrasion, H-18 Wheel**

Mg Loss / 1,000 Cycles	15
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URS 2082 Cont:

### **PROCESSING PARAMETERS**

Melt and process polyol 660B at 100 to 150 degrees F.

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

Mold Temperature: 110 to 180 degrees F.

Mix Ratio: 100 parts Polyol 660B to 39 parts Isocyanate 160A by weight.

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

Pot Life: (200g mass) (100 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.