

**URS 5180**

Revised April 2017

**NON-MDA LOW MOISTURE SENSITIVE POLYURETHANE CASTING SYSTEM**

**80 SHORE A**

**DESCRIPTION**

**URS 5180** is an amber, two component, NON-MDA, polyether based urethane casting system designed for low moisture sensitivity. **URS 5180's** unique handling characteristics allow for castings to be made on typically difficult moisture absorbing surfaces, wood-plasters-ceramics, without interacted exchange. **URS 5180** also sets and cures at room temperature, ideal for proto mold making, vibration damping parts, bumper pads, stripers, etc.

**FEATURES**

NON-MDA  
Extremely Low Shrinkage  
Low Moisture Sensitivity  
Room Temperature Processing  
High Impact Strength  
No MOCA or TDI  
Hand or Machine Processing

**LIQUID**

<b><u>PROPERTIES</u></b>	<b><u>AMN 680B</u></b>	<b><u>ISO 350A</u></b>	<b><u>MIXED</u></b>
Appearance	Lt. Brown Liquid	Clear Liquid	Lt. Brown Liquid
Viscosity (cps)	200 - 400 (77F)	7,000-10,000 (77F)	5,000-6,500 (77F)
Density (lbs/gal)	8.40 - 8.55	8.60-8.70	8.55-8.65

**PHYSICAL PROPERTIES**

Hardness, Shore A	80
Tensile Strength, Ultimate, psi	1725
Elongation, %	450
Tear Strength PLI	240

**LINEAR SHRINKAGE**

D-2566	.0005 In/In
1.125" Deep	

**URS 5180 Continued:**

**PROCESSING PARAMETERS**

Process AMN 680B at 65 to 100 degrees F.

Melt Isocyanate 350A if frozen at 100 degrees F., otherwise use at 60 - 85 degrees F.

Mold Temperature: 60 to 100 degrees F.

Mix Ratio: 50 parts AMN 680B to 100 parts Isocyanate 350A by weight.

Degas mixture if possible

Pot Life: (200g mass) (77 F) 15 to 25 minutes.

Demold: 1 - 2 hours or 30 - 45 minutes with maximum process and mold temperature.

Post Cure: 24 hours @ 150 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 SHEETS have been read and understood.