

URS 5080

Revised 10/21/22

ULTRA HIGH PERFORMANCE

NON-MDA LOW MOISTURE SENSITIVE POLYURETHANE CASTING SYSTEM

80 SHORE A

DESCRIPTION

URS 5080 is an amber, two component, NON-MDA, polyether based urethane casting system designed for low moisture sensitivity with high physical performance. **URS 5080's** unique handling characteristics allow for castings to be made on typically difficult moisture absorbing surfaces, wood-plasters-ceramics, without interacted exchange. **URS 5080** 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
Ultra High Performance
No MOCA or TDI
Hand or Machine Processing

LIQUID

<u>PROPERTIES</u>	<u>AMN 10020B</u>	<u>ISO 1050A</u>	<u>MIXED</u>
Appearance	Lt. Brown Liquid	Clear Liquid	Lt. Brown Liquid
Viscosity (cps)	1900 - 2100 (77F)	3,000-5,000 (77F)	3,600-4,000 (77F)
Density (lbs/gal)	8.70 - 8.80	9.80 – 10.00	9.70– 9.80

PHYSICAL PROPERTIES

Hardness, Shore A	80-85
Tensile Strength, Ultimate, psi	3870
Elongation, %	460
Tear Strength PLI	410

LINEAR SHRINKAGE

D-2566	.0005 In/
11.125" Deep	

URS 5080 Continued:

PROCESSING PARAMETERS

Process AMN 10020B at 65 to 100 degrees F.

Melt Isocyanate 1050A if frozen at 100 degrees F., otherwise use at 60 - 85 degrees F.

Mold Temperature: 60 to 100 degrees F.

Mix Ratio: 14 parts AMN 10020B to 100 parts Isocyanate 1050A by weight.

Degas mixture if possible

Pot Life: (200g mass) (77 F) 30 to 35 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 SAFETY DATA SHEETS. Do not handle or use until the SAFETY DATA SHEETS have been read and understood.