

URS 5275

Revised 5/30/23

LOW MOISTURE SENSITIVE NON MDA POLYURETHANE CASTING SYSTEM

75 SHORE D

DESCRIPTION

URS 5275 is an amber, two component, NON-MDA polyether based urethane casting system designed for low moisture sensitivity. **URS 5275** unique handling characteristics allow for castings to be made on typically difficult moisture absorbing surfaces, wood-plastics-ceramics, without interacted exchange. **URS 5275** also sets and cures at room temperature, ideal for proto mold making, vibration damping parts, bumper pads, stripers, etc.

FEATURES

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

LIQUID

PROPERTIES

AMN 540B

ISO 380A

MIXED

Appearance	Lt Brown Liquid	Clear Liquid	Lt Brown Liquid
Viscosity (cps)	1900-2100(77F)	8000-9000 (77 F)	7000-7500 (77 F)
Density (lbs/gal)	8.70-8.80	9.80 – 10.00	9.60 – 9.80

PHYSICAL PROPERTIES

Hardness, Shore D	75
Tensile Strength, Ultimate, psi	4800
Elongation, %	240
Tear Strength PLI	515

LINEAR SHRINKAGE

D- 2566	.001 In / In
1.125" Deep	

TABOR ABRASION

D-1044 H-18 Wheel	
100 Cycles mg / loss	410

*NOTE CASTINGS MUST BE POST CURED @ 150 DEG F. FOR 18 HRS. TO OBTAIN FULL PHYSICAL PROPERTIES.

URS 5275 Cont:

PROCESSING PARAMETERS

Melt AMN 540B if frozen at 100°F otherwise use at 60-85 degrees F.

Melt Isocyanate 380A if frozen at 100 degrees F., otherwise use at 60-85 degrees F.

Mold Temperature: 60 to 120 degrees F.

Mix ratio: 26.00 parts AMN 540B to 100 parts Isocyanate 380A by weight.

Degas mixture if possible

Pot life: (200g mass) (77 degrees F) 20 to 25 minutes.

Demold: 1-2 hours or 18-22 minutes with maximum process and mold temperature

Post Cure: 16-24 hours @ 120 degrees F. Please be aware that in some cases it may be necessary to fully post cure the product to obtain maximum physical properties!!

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 SHEET has been read and understood.