

HIGH MODULUS, FLAME RETARDANT POLYURETHANE CASTING SYSTEM

75 SHORE D

DESCRIPTION

URS 4275 is a high modulus, polyether based urethane casting system with good rigidity and flame retardation to pass UL 94 – V1. **URS 4275** is recommended for applications where stiffness, high impact resistance are of consideration, such as ridge balasts, impact guards, guide slots, support plates, edge guards, etc..

FEATURES

- Excellent Machining Qualities
- High Impact Strength
- Excellent Tensile Strength
- Outstanding Oil Resistance
- Should pass UL 94 V1
- Hand or Machine Processing
- No MOCA or TDI

LIQUID

PROPERTIES

POL 470B

ISO 480A

MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	2800 - 3400 (77 F)	300 - 800 (77 F)	1400-1800 (77 F)
Density (lbs/gal)	8.90 – 9.10	10.5 – 10.9	9.90 – 10.10

PHYSICAL PROPERTIES

Hardness, Shore D	75
Modulus, psi, 100%	4225
Tensile Strength, Ultimate, psi	7025
Elongation, %	180
Tear Strength “Die C” lbs/in	105
Compression Strength, Method A	11
Impact Resistance, Ft-lbs/in	18
UL 94 V1	Should Pass

URS 4275 Cont:

PROCESSING PARAMETERS

Process Polyol 470B at 100 to 150 degrees F.

Melt Isocyanate 480A if frozen at 100 degrees F., otherwise use at 70-85 degrees F.

Mold Temperature: 100 to 150 degrees F.

Mix ratio: 100 parts Polyol 470B to 150 parts Isocyanate 480A by weight.

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

Pot life: (200g mass) (100 degrees F) 10 to 20 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. or 48 hours at room temperature.

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.