

URS 2490

HIGH PERFORMANCE POLYURETHANE CASTING SYSTEM

90 SHORE A

DESCRIPTION

URS 2490 is a high performance polyether based urethane casting system with extremely high wear, cut and tear resistance. **URS 2490** is recommended where gouging, cutting, tearing, sharp particles and sliding abrasion are common place. Applications include sand screws, classifier shoes, sizing screens, wear plates, oil housings, etc.

FEATURES

Outstanding Tensile Strength
Superior Sliding Abrasion Resistance
Superior Resistance To Water and Oil
No MOCA or TDI
Hand or Machine Processing
Excellent Low Temperature Properties -40 Deg F

LIQUID

PROPERTIES

POL 250B

ISO 110A

MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	1,000 – 2,000 (100 F)	500 – 1,000 (77 F)	800 – 1,200 (100 F)
Density (lbs/gal)	8.10 – 8.25	10.0 -10.2	8.85– 9.05

PHYSICAL PROPERTIES

Hardness, Shore A	90
Modulus, psi 100%	1050
200%	1710
300%	2800
Tensile Strength, Ultimate, psi	4900
Elongation, %,	375
Tear Strength, "Die C" lbs/in	490
Compression Set, Method B	30
Bayshore Rebound, %	40

URS 2490 Cont:

PROCESSING PARAMETERS

Melt and process polyol 250B at 100 to 150 degrees F.

Melt Isocyanate 110A if frozen at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 100 to 180 degrees F.

Mix ratio: 100.00 parts Polyol 250B to 70 parts Isocyanate 110A by weight.

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

Pot life: (200g mass) (100 degrees 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.