

URS 2495

HIGH PERFORMANCE POLYURETHANE CASTING SYSTEM

95 SHORE A

DESCRIPTION

URS 2495 is a high performance polyether based urethane casting system with extremely high wear, cut and tear resistance. **URS 2495** 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
Excellent Low Temperature Properties -40 Deg F
No MOCA or TDI
Hand or Machine Processing

LIQUID

| <u>PROPERTIES</u> | <u>POL 310B</u> | <u>ISO 110A</u> | <u>MIXED</u> |
|-------------------|---------------------|--------------------|--------------------|
| Appearance | Amber Liquid | Amber Liquid | Amber Liquid |
| Viscosity (cps) | 1000 – 2000 (100 F) | 500 – 1,000 (77 F) | 800 – 1200 (100 F) |
| Density (lbs/gal) | 8.10 – 8.25 | 10.0 -10.2 | 8.85-9.05 |

PHYSICAL PROPERTIES

| | |
|---------------------------------|------|
| Hardness, Shore A | 95 |
| Modulus, psi 100% | 1250 |
| 200% | 1890 |
| 300% | 2900 |
| Tensile Strength, Ultimate, psi | 5900 |
| Elongation, %, | 325 |
| Tear Strength "Die C" lbs/in | 520 |
| Compression Set, Method B | 30 |

Bayshore Rebound, %

40

URS 2495 Cont:

PROCESSING PARAMETERS

Melt and process polyol 310B 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 parts Polyol 310B to 82 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.