

URS 2450

DYNAMIC PERFORMANCE POLYURETHANE CASTING SYSTEM

50 SHORE A

DESCRIPTION

URS 2450 is a polyether based urethane casting system with excellent dynamic and mechanical properties. **URS 2450** is recommended for highly abrasive or high flex applications such as slurry pumps, sizing screens, rollers, wheels, shock pads, etc.

FEATURES

Excellent Flex Life
Outstanding Abrasion Resistance
Superior Resistance To Water
No MOCA or TDI
Hand or Machine Processing
Excellent Low Temperature Properties – 40 Deg F
Good Cut Tear Resistance

LIQUID

PROPERTIES

POL 7070B

ISO 160A

MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	1,000 – 2,000 (100 F)	100 - 500 (77 F)	1,200 – 1,500 (100 F)
Density (lbs/gal)	8.10 – 8.25	10.0 -10.2	8.30 – 8.50

PHYSICAL PROPERTIES

Hardness, Shore A	50
Modulus, psi 100%	225
200%	333
300%	525
Tensile Strength, Ultimate, psi	1512
Elongation, %	440
Tear Strength, PLI	166
Compression Set, Method B	18
Bayshore Rebound, %	40

URS 2450 Cont:

PROCESSING PARAMETERS

Melt and process polyol 7070B at 100 to 150 degrees F.

Melt Isocyanate 160A if frozen at 100 degrees F., otherwise use at 60-85 degrees F.

Mold Temperature: 100 to 180 degrees F.

Mix ratio: 100.00 parts Polyol 7070B to 16.50 parts Isocyanate 160A 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 12 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.