

URS 2090

HIGH STRENGTH POLYURETHANE SYSTEM

90 SHORE A

DESCRIPTION

URS 2092 is a medium viscosity polyester based urethane casting system with outstanding tear and tensile strength. **URS 2090** is designed for applications that require a high modulus, abrasion resistance, toughness and resiliency. Applications include impellers, skirt boards, belt scrapers, etc.

FEATURES

Outstanding Abrasion Resistance
High Modulus
Excellent Tear Resistance
No MOCA or TDI
Hand or Machine Processing

LIQUID

<u>PROPERTIES</u>	<u>POL 350B</u>	<u>ISO 160A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	8,000 -10,000 (90F)	100-500 (77 F)	4,500-6,500 (90 F)
Density (lbs/gal)	8.35-8.60	10.0 – 10.20	8.90-9.10

PHYSICAL PROPERTIES

Hardness, Shore A	90
Modulus, psi, 100%	1190
200%	1420
300%	1740
Tensile Strength, Ultimate, psi	7365
Elongation %	490
Split Tear PLI	327
Bayshore Rebound, %	35

Tabor Abrasion, H-18 Wheel

Mg Loss / 1,000 Cycles	45
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URS 2090 Cont:

PROCESSING PARAMETERS

Melt and process polyol 350B at 100 to 150 degrees F.

Melt Isocyanate 160A if frozen at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 110 to 180 degrees F.

Mix Ratio: 100 parts Polyol 350B to 50 parts Isocyanate 160A by weight.

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

Pot Life: (200g mass) (100 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.