

URS 4070

LOW COST, LOW VISCOSITY OIL MODIFIED RIGID POLYURETHANE CASTING SYSTEM

70 SHORE D

DESCRIPTION

URS 4070 is a Low cost, low viscosity, oil modified polyether based urethane casting system with good rigidity and excellent impact resistance. **URS 4070** is recommended for applications where stiffness with moderate flexibility and impact resistance and low cost are of consideration such as picture frames, furniture parts, ceiling panels, etc.

FEATURES

- Good Impact Strength
- Room Temperature Processing
- Low Cost
- No MOCA or TDI
- Hand or Machine Processing
- Outstanding Oil Resistance
- Extremely Low Process Viscosity

LIQUID

<u>PROPERTIES</u>	<u>POL 3010B</u>	<u>ISO 200A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Dark Brown Liquid	Light Brown Liquid
Viscosity (cps)	50 - 125 (77 F)	200 - 300 (77 F)	100 - 200 (77 F)
Density (lbs/gal)	7.40 – 7.80	10.0 – 10.2	8.20 – 8.60

PHYSICAL PROPERTIES

Hardness, Shore D		70
Tensile Strength, Ultimate, psi		3000
Elongation at break %,	Less Than	10
Compressive Strength, psi		4200
Shrinkage		1.20%

URS 4070 Cont:

PROCESSING PARAMETERS

Process Polyol 3010B at 65 to 100 degrees F.

Melt Isocyanate 200A if frozen at 100 degrees F., otherwise use at 65- 100 degrees F.

Mold Temperature: 65 to 100 degrees F.

Mix ratio: 100 parts Polyol 3010B to 45 parts Isocyanate 200A by weight.

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

Pot life: (200g mass) (77 degrees F) 3 to 5 minutes.

Demold: 30-45 minutes with maximum process and mold temperature. Catalyst may also be used to shorten demold time.

Post Cure: 16-24 hours @ room temperature (77F)

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.