

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

PROPERTIES

POL 3010B

ISO 200A

MIXED

| | | | |
|-------------------|-----------------|-------------------|--------------------|
| 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.