

URS 4380

**LOW COST, LOW VISCOSITY UNMODIFIED HIGH IMPACT RESISTANT POLYURETHANE CASTING
SYSTEM
80 SHORE D**

DESCRIPTION

URS 4380 is a high modulus, low cost, low viscosity polyether based urethane casting system with good rigidity and excellent impact resistance. **URS 4380** is recommended for applications where cost, stiffness and high impact resistance are of consideration such as impact guards, guide slots, proto type patterns, polyester resin substitution, etc.

FEATURES

1 to 1 By Volume
Low Cost
High Rigidity
Superior Impact Strength
Room Temperature Processing
No MOCA or TDI
Hand or Machine Processing
Outstanding Oil Resistance
Low Viscosity

LIQUID

<u>PROPERTIES</u>	<u>POL 10030B</u>	<u>ISO 1060A</u>	<u>MIXED</u>
Appearance	Translucent Liquid	Amber Liquid	Amber Liquid
Viscosity (77°F)	200-400 (CPS)	200-400 (CPS)	200-400 (CPS)
Density (lbs/gal)	8.60-8.70	9.60-9.80	9.10-9.30

PHYSICAL PROPERTIES

Hardness, Shore D	80
Tensile Strength, Ultimate, psi	7200
Elongation, %	180
Tear Strength lbs/in	105
Compression Strength, Method A	10
Impact Resistance, Ft-lbs/in	18

URS 4380Cont:

PROCESSING PARAMETERS

Process Polyol 10030B at 65 to 150 degrees F.

Melt Isocyanate 200A if frozen at 150 degrees F., otherwise use at 70-150 degrees F.

Mold Temperature: 65 to 150 degrees F.

Mix ratio: 1 part Polyol 10030B to 1 part Isocyanate 1060A by volume or 90 parts Polyol 10030B to 100 parts ISO 1060A by weight.

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

Pot life: (200g mass) (77 degrees F) 8 to 12 minutes.

Demold: 30 – 45 minutes at room temperature. Catalyst may also be used to shorten demold time.

Post Cure: 16-24 hours @ 77 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.