

QUICK-SET HIGH IMPACT/HDT RIM PROTOTYPE POLYURETHANE CASTING

80 SHORE D

DESCRIPTION

URS 4080 is a high modulus, high HDT polyether based urethane casting system with good rigidity and excellent impact resistance designed for RIM prototypes and general plastic substitution. **URS 4080** is recommended for applications where stiffness, high impact resistance and good thermal stability are of consideration. Applications would include prototype patterns, polyethylene and polyester resin substitution, rim duplication etc.

FEATURES

- Excellent Thermal Stability
- 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 6020B</u>	<u>ISO 760A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Clear Yellowish Liquid	Clear Off White Liquid
Viscosity (cps)	900-1300 (77 F)	1500-2000 (77 F)	1400-1600 (77 F)
Density (lbs/gal)	8.90 – 9.20	9.90 – 10.10	9.50 - 9.70

PHYSICAL PROPERTIES

Hardness, Shore D	80
Tensile Strength, Ultimate, psi ASTM D-638	5550
Elongation, %, ASTM D-638	10.0
Compression Strength PSI ASTM D-695	24,100
Impact Resistance, Ft-lbs/in	18
Heat Delection Temperature-	180 Degrees F

URS 4080 Cont:

PROCESSING PARAMETERS

Process Polyol 6020B at 65 to 150 degrees F.

Melt Isocyanate 760A if frozen at 100 degrees F., otherwise use at 70-85 degrees F.

Mold Temperature: 65 to 150 degrees F.

Mix ratio: 100 parts Polyol 6020B to 100 parts Isocyanate 760A 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 4 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.