

URS 2040

Revised 8/14/09

HIGH STRENGTH,LOW DUROMETER POLYURETHANE CASTING SYSTEM

40 SHORE A

DESCRIPTION

URS 2040 is a medium viscosity polyester based urethane casting system with excellent low durometer characteristics. **URS 2040** is designed for applications requiring high flexibility and good cut tear resistance with excellent machining qualities when filler is added. Applications include rollers, bumpers, pads, strippers, sound damping parts, flexible molds, etc.

FEATURES

High Flexibility
Excellent Oil And Solvent Resistance
High Filler Loading Capabilities
No MOCA or TDI
Hand or Machine Processing

LIQUID

PROPERTIES

POL 720 B

ISO 970 A

MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	7,000 – 9,000 (77F)	700 – 1,000 (77F)	6,000 - 8,000 (77F)
Density (lbs/gal)	8.60 – 8.80	10.0. – 10.2	8.75 – 8.95

PHYSICAL PROPERTIES

Hardness, Shore A	40
Modulus, psi, 100%	165
200%	220
300%	350
Tensile Strength, Ultimate, psi	2650
Elongation, %	515
Tear Strength "Die C" lbs / in	140
Bayshore Rebound, %	29

URS 2040 Continued:

PROCESSING PARAMETERS

Melt and process polyol 720B at 100 to 150 degrees F.

If frozen, melt Isocyanate 970A at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 120 to 160 degrees F.

Mix Ratio: 100.00 parts Polyol 720B to 13.20 parts Isocyanate 970A 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 at 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 SHEETS have been read and understood.