

URS 2583

HIGH MODULUS POLYURETHANE CASTING SYSTEM

83 SHORE D

DESCRIPTION

URS 2583 is a high modulus polyether based urethane casting system with good rigidity and excellent impact resistance. **URS 2583** is recommended for applications where stiffness with remote flexibility and impact resistance are of consideration such as, wheels, impact guards, guide slots, support plates, etc.

FEATURES

High Rigidity
Superior Impact Strength
Excellent Tensile Strength
No MOCA or TDI
Hand or Machine Processing
Outstanding Oil Resistance

LIQUID

PROPERTIES

POL 460B

ISO 110A

MIXED

Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	200 – 500 (100 F)	500 – 1,000 (77 F)	400 – 800 (100 F)
Density (lbs/gal)	8.60 – 8.85	10.0 -10.2	9.40-9.60

PHYSICAL PROPERTIES

Hardness, Shore D	83
Modulus, psi 100%	4300
Tensile Strength, Ultimate, psi	9025
Elongation, %	180
Tear Strength lbs/in	105
Compression Set, Method A	10
Impact Resistance ft-lbs/in	12

URS 2583 Cont:

PROCESSING PARAMETERS

Melt and process polyol 460B at 120 to 150 degrees F.

Melt Isocyanate 110A if frozen at 100 degrees F., otherwise use at 70 to 85 degrees F.

Mold Temperature: 120 to 180 degrees F.

Mix ratio: 100 parts Polyol 460B to 150 parts Isocyanate 110A by weight.

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

Pot life: (200g mass) (100 degrees F) 3 to 6 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 @ 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 SHEET has been read and understood.