

URS 2555

HIGH MODULUS POLYURETHANE CASTING SYSTEM

55 SHORE D

DESCRIPTION

URS 2555 is a high modulus polyether based urethane casting system with good rigidity and excellent impact resistance. **URS 2555** 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 Impact Strength
Excellent Tensile Strength
No MOCA or TDI
Hand or Machine Processing
Outstanding Oil Resistance
Low Process Viscosity

LIQUID

PROPERTIES

POL 690B

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	9.10-9.30

PHYSICAL PROPERTIES

Hardness, Shore D	55
Modulus, psi 100%	1800
200%	3400
Tensile Strength, Ultimate, psi	6500
Elongation, %, 300	
Tear Strength lbs/in	130
Compression Set, Method B	40

URS 2555Cont:

PROCESSING PARAMETERS

Melt and process polyol 690B at 100 to 150 degrees F.

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

Mold Temperature: 110 to 180 degrees F.

Mix ratio: 100 parts Polyol 690B to 58 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) 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 @ 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.