

FORSCH POLYMER CORP.

TECHNICAL DATA BULLETIN

URS 6280

HIGH MODULUS, FDA APPROVED POLYURETHANE CASTING SYSTEM

80 SHORE D

DESCRIPTION

URS 6280 is a high modulus polyether based urethane system with FDA approval, good rigidity and excellent impact resistance. URS 6280 is recommended for applications where stiffness and impact resistance are of consideration such as wheels, impact guards, food guide slots, support plates, feed bins, etc.

FEATURES

High Impact Strength
Excellent Tensile Strength
No MOCA or TDI
Hand or Machine Processing
Outstanding Oil Resistance
Meets FDA 21 CFR Sec. 175.105 & 177.168

LIQUID

<u>PROPERTIES</u>	<u>POL 450B</u>	<u>ISO 110A</u>	<u>MIXED</u>
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	200 - 500 (100F)	500-1,000 (77 F)	400 - 800 (100 F)
Density (lbs/gal)	8.60 - 8.85	10.0 -10.2	9.30 - 9.50

PHYSICAL PROPERTIES

Hardness, Shore D	80
Modulus , psi, 100%	4650
Tensile Strength, Ultimate, psi	9000
Elongation, %,	210
Tear Strength, lbs / in	110
Compression Set , Method A	10
Impact Resistance ft-lbs / in	11

URS 6280 Cont:

PROCESSING PARAMETERS

Melt and process polyol 450B at 50 to 150 degrees F.

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

Mold Temperature: 120 to 160 degrees F.

Mix ratio: 100.00 parts Polyol 450B to 100 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) 10 to 15 minutes.

Demold: 1 - 2 hours or 30 – 45 minutes with maximum process and mold temperature .
Catalyst may also be used to shorten demold time.

NOTE: if catalyst is used it must also conform to appropriate FDA sections.

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.

This product is warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. The obligation herein shall be limited to refunding the purchase price of that portion of the material proven to be defective.