URS 6188

HIGH PERFORMANCE, ABRASION RESISTANT FDA APPROVED POLYURETHANE CASTING SYSTEM

88 SHORE A

DESCRIPTION

URS 6188 is a high performance, abrasion resistant polyether based urethane System with FDA approval, excellent abrasion resistance and high recovery. **URS 6188** is recommended for applications where wear resistance from impact and Sliding particals are of consideration such as food sizing screens, impact Guards , food guide slots, support plates, feed bins, etc.

FEATURES

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

LIQUID PROPERTIES	POL 4090B	ISO 110A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	1000-2000 (100F)	500-1000 (77 F)	1000 – 1400 (100F)
Density (lbs/gal)	8.10 – 8.25	10.0 -10.2	8.75 – 8.95

PHYSICAL PROPERTIES

Hardness, Shore A	88
Tensile Strength, Ultimate, psi	5025
Elongation, %,	375
Tear Strength "Die C " lbs / in	470
Linear Shrinkage D – 2566 (1.125" Deep)	.05 IN / IN

URS 6188 Cont:

PROCESSING PARAMETERS

Melt and process polyol 4090B at 120 to 160 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 4090B to 73.00 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) 5 to 8 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.