URS 2090

HIGH STRENGTH POLYURETHANE SYSTEM

90 SHORE A

DESCRIPTION

URS 2090 is a medium viscosity polyester based urethane casting system with outstanding tear and tensile strength. **URS 2090** is designed for applications that require a high modulus, abrasion resistance, toughness and resiliency. Applications include impellers, skirt boards, belt scrapers, etc.

FEATURES

Outstanding Abrasion Resistance High Modulus Excellent Tear Resistance No MOCA or TDI Hand or Machine Processing

LIQUID

POL 350B	<u>ISO 160A</u>	MIXED
Amber Liquid	Amber Liquid	Amber Liquid
, , ,	, ,	4,500-6,500 (90 F) 8.90-9.10
		Amber Liquid Amber Liquid 8,000 -10,000 (90F) 100-500 (77 F)

PHYSICAL PROPERTIES

Hardness, Shore A		90
Modulus, psi,	100% 200% 300%	1190 1420 1740
Tensile Strength, Ultimate, psi		7365
Elongation %		490
Split Tear PLI		327
Bayshore Rebound, %		35
Tabor Abrasi	on, H-18 Wheel	
Mg Loss / 1,000 Cycles Mg Loss / 5,000 Cycles		45 135

URS 2090 Cont:

PROCESSING PARAMETERS

Melt and process polyol 350B at 100 to 150 degrees F.

Melt Isocyanate 160A 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 350B to 50 parts Isocyanate 160A 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 @ 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.