URS 2678

DYNAMIC PERFORMANCE POLYURETHANE CASTING SYSTEM

78 SHORE A   Revised 6/22/99

DESCRIPTION

URS 2678 is a polyether based urethane casting system with excellent dynamic and mechanical properties. **URS 2678** is recommended for highly abrasive or high flex applications such as slurry pumps, sizing screens, rollers, wheels, shock pads,etc.

FEATURES

Excellent Flex Life
Outstanding Abrasion Resistance
Superior Resistance To Water
No MOCA or TDI
Hand or Machine Processing
Excellent Low Temperature Properties – 40 Deg F

LIQUID

PROPERTIES	POL 490B	ISO 160A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	2,000 – 3,000 (120 F)	100 - 500 (77 F)	1,200 – 2,400 (120 F)
Density (lbs/gal)	8.10 – 8.25	10.0 -10.2	8.75 – 8.90

PHYSICAL PROPERTIES

Hardness, Shore A	78
Modulus, psi 100%	690
200%	1010
300%	1590
Tensile Strength, Ultimate, psi	4580
Elongation, %,	480
Tear Strength, "Die C" lbs / in	420
Compression Set, Method B	20
Bayshore Rebound, %	69

PROCESSING PARAMETERS

Melt and process polyol 490B at 100 to 150 degrees F.

Melt Isocyanate 160A if frozen at 100 degrees F., otherwise use at 70-85 degrees F.

Mold Temperature: 120 to 180 degrees F.

Mix ratio: 100.00 parts Polyol 490B to 37.30 parts Isocyanate 160A 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 12 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.