URS 2275

LOW VISCOSITY, ROOM TEMPERATURE POLYURETHANE POTTING OR MOLDING SYSTEM

75 SHORE A

DESCRIPTION

URS 2275 is a low viscosity polyether based urethane casting system with excellent room temperature molding properties. **URS 2275** is recommended for molding or potting and encapsulation of electronic devices were low viscosity and lack of heating sources are of consideration. Applications include lighting balasts, transformers, flexible molds, rollers, etc.

FEATURES

Extremely Low Process Viscosity
Outstanding Low Temperature Qualities
Excellent Resistance To Water and Oils
No MOCA or TDI
Room Temperature Processing

LIQUID PROPERTIES	POL 780B	ISO 160A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	400-1,100 (77 F)	100 – 500 (77 F)	500-1,000 (77 F)
Density (lbs/gal)	8.60 – 8.80	10.0 -10.2	9.10 – 9.30

PHYSICAL PROPERTIES

Hardness, Shore A	75
Tensile Strength, Ultimate, psi	2450
Elongation, %,	425
Tear Strength, PLI	250
Dielectric Constant (ASTM-D-150)	
1 K Hz	4.90
10 K Hz	4.25
Dissipation Factor (ASTM-D-150)	
1 K Hz	.270
10 K Hz	.225

URS 2275 Cont:

PROCESSING PARAMETERS

Process Polyol 780B at 65 to 90 degrees F.

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

Mold Temperature: 70 to 125 degrees F.

Mix ratio: 100.00 parts Polyol 780B to 58 parts Isocyanate 160A by weight.

Degas mixture if possible or pre-degas Polyol in dispensing equipment prior to casting.

Pot life: (200g mass) (77 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.

Post Cure: 24 hours @ 77 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.