

June 2014

URS 4850

CLEAR POLYURETHANE CASTING SYSTEM

50 SHORE A

DESCRIPTION

URS 4850 is a flexible, clear polyether based urethane casting system designed for clear-see through potting or casting applications. **URS 4850** provides excellent hydrolytic and UV stability while maintaining its' physical characteristics to -40 Deg F. Applications include see through potting of electrical components, items for encapsulation protection & thick shell coatings.

FEATURES

Clear/see through
High Impact Strength
Good Tensile Strength
No MOCA or TDI
Hand or Machine Processing
Outstanding Oil Resistance
Superior Hydrolytic stability

LIQUID

<u>PROPERTIES</u>	<u>POL 10190B</u>	<u>ISO 1080A</u>	<u>MIXED</u>
Appearance	Clear Liquid	Clear Liquid	Clear Liquid
Viscosity (cps)	200-600 (77F)	500-700cps (77 F)	400-600cps (77F)
Density (lbs/gal)	8.55-8.65	9.20-9.40	8.90-9.00

PHYSICAL PROPERTIES

Hardness, Shore A	50
Tensile Strength, Ultimate, psi	1150
Elongation, %	410
Tear Strength "Die C" lbs / in	160

URS 4850 Cont:

PROCESSING PARAMETERS

Process polyol 10190B at 60 to 160 degrees F.

Melt Isocyanate 1080A if frozen at 100 degrees F., otherwise use at 60 to 160 degrees F.

Mold Temperature: 60 to 160 degrees F.

Mix ratio: 100.00 parts Polyol 10190B to 37.25 parts Isocyanate 1080A by weight.

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

Pot life: (200g mass) (77 degrees F) 15 to 20 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.