URS 2030

LOW DUROMETER POLYURETHANE CASTING SYSTEM
30 SHORE A

DESCRIPTION

URS 2030 is a medium viscosity polyester based urethane casting system with excellent low durometer characteristics. URS 2030 is designed for applications requiring high flexibility along with excellent high filler loading properties. Applications include rollers, bumpers, pads, protective coverings, etc.

FEATURES

High flexibility
Excellent oil and solvent resistance
High filter loading capabilities
Machine or hand processing
No MOCA or TDI

LIQUID PROPERTIES	POLYOL 270B	ISO 160A	MIXED
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	6,000-10,000(77F)	100-500(77F)	5,200-9,200(77F)
Density (lbs/gal)	8.60-8.80	9.40 – 9.70	8.75-8.95

PHYSICAL PROPERTIES

Hardness, Shore A	30
Modulus, psi, 100%	120
200%	185
300%	270
Tensile strength , Ultimate, psi	1400
Elongation, %	540
Tear strength "Die C" lbs/in	120
Bayshore rebound, %	30

PROCESSING PARAMETERS

Melt and process polyol 270B at 77 to 150 degrees F.

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

Mold temperature: 120 to 180 degrees F.

Mix Ratio: 100 parts Polyol 270B to 10.75 parts Isocyanate 160A by weight.

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

Pot Life: (200g mass) (77 degrees F) 10-15 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: 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.