

# Innovative Polymers, Inc.

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## VA-272

### POLYURETHANE ELASTOMER

#### DESCRIPTION

VA-272 is a tough, water clear polyurethane elastomer formulated for room temperature hand batch processing. The unique chemistry of the system imparts excellent optical clarity. Excellent physical properties are obtained with only a room temperature cure without the utilization of MOCA or TDI.

#### APPLICATIONS

\* Prototypes \* Flow Models \* Encapsulating \* Fixtures

\* Rollers \* Pallets \* Lenses

#### TYPICAL PROPERTIES

Resin/Hardener ratio (Parts by Weight)	100/50
Resin/Hardener ratio (Parts by Volume)	100/57
Resin viscosity (@ 77° F.)	900 cps
Hardener viscosity (@ 77° F.)	4000 cps
Initial mixed viscosity	1200 cps
Working life	4-6 min
Color	Clear
Demold time	2-4 hours
Ultimate cure @ 77°F.	7 days

<u>CURED PROPERTIES:</u>		
	Test method 24 hours @ 77°F	
Hardness	ASTM D-2240	75-85 D
Tensile Strength	ASTM D-638 (1" per minute)	9700 psi
Elongation at Break	ASTM D-638	5%
Flex Modulus	ASTM D-790	250,000 psi
Linear Shrinkage	ASTM D-2566 Mold #1	.004 in./in
Heat Distortion Temperature	ASTM D-648 @ 66 psi	140° F
	With postcure of 150° F for 8 hours	170° F