

# Innovative Polymers, Inc.

800-340-4563

INNOVATIVE@MUTUALDATA.COM

www.innovative-polymers.com

## PRODUCT DATA BULLETIN

### VA-290

### High Impact Polyurethane

#### DESCRIPTION

VA-290 is a tough, high impact polyurethane elastomer formulated for room temperature hand batch processing. Excellent physical properties are obtained with a one hour postcure at 150° F.

#### APPLICATIONS

\*Rapid Prototypes

\*Limited production runs

\*Nesting fixtures

#### TYPICAL PROPERTIES

Resin/ Hardener ratio (Parts by. Weight)	100/60
Resin/ Hardener ratio (Parts by Volume)	100/60
Resin Viscosity (@ 72° F)	825 cps
Hardener Viscosity (@ 72° F)	650 cps
Initial mixed viscosity	750 cps
Working life	10-15 Min
Color	Tan
Demold Time @ 150° F.	1 hour

#### CURED PROPERTIES

	Test Method	1 hr @ 150°F + 24 hrs. @ room temp	7 days @ room temp
Shore Hardness	ASTM D-2240	75-85 D	75-85 D
Tensile Strength	ASTM D-638	5500 psi	6100 psi
Elong. At Break	ASTM D-638	12 %	9 %
Flexural Modulus	ASTM D-790	140,000 psi	200,000 psi
Flexural Strength	ASTM D-790	4500 psi	8600 psi
Notched Izod Impact	ASTM D-256	1.5 ft. lb./in.	1.5 ft. lb./in.
Heat Distortion Temp @ 66 psi	ASTM D-648	108° C	115° C