

# Innothane® IE-3068

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3068 is a 70 shore D polyurethane formulated for room temperature hand-batch or vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.08	g/cm <sup>3</sup>	
Hardener	1.10	g/cm <sup>3</sup>	
Base Resin	1.17	g/cm <sup>3</sup>	
Molding Shrinkage - Flow	0.30	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	67.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	65.0	°C	
1.8 MPa, Unannealed	60.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 94		
Demold Time	120 to 240	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.045	Pa · s	

25°C <sup>2</sup>	0.15	Pa·s	
25°C <sup>3</sup>	0.50	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	10 to 16	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 80		ASTM D2240
Tensile Strength	35.2	MPa	ASTM D638
Tensile Elongation at Break	10	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

