# Innothane® IE-3040

Polyurethane Thermoset Elastomer

### Innovative Polymers, Inc.

#### Message:

IE-3040 is a polyethylene-like polyurethane formulated for hand-batch processing, roto-casting or vacuum cast methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. It has excellent green strength yielding enhanced demold characteristics.

General Information				
Features	Good Green Strength			
	Good Mold Release			
RoHS Compliance	RoHS Compliant			
Appearance	White			
Processing Method	Vacuum Casting			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
Hardener	1.05	g/cm³		
Cured	1.08	g/cm³		
Base Resin	1.21	g/cm³		
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566	
Mechanical	Nominal Value	Unit	Test Method	
Flexural Modulus	469	МРа	ASTM D790	
Flexural Strength	21.7	МРа	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	150	J/m	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, Unannealed	85.0	°C		
1.8 MPa, Unannealed	61.0	°C		
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
	Mix Ratio by Volume: 100			
Hardener	Mix Ratio by Weight: 100			
	Mix Ratio by Weight: 70			
Resin	Mix Ratio by Volume: 61			

Demold Time	60 to 120	min		
Uncured Properties	Nominal Value	Unit	Test Method	
Viscosity				
25°C <sup>1</sup>	0.075	Pa·s		
25°C <sup>2</sup>	0.30	Pa·s		
25°C <sup>3</sup>	0.90	Pa·s		
Curing Time <sup>4</sup>	25	hr		
Gel Time	4.0 to 6.0	min		
Cured Properties	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	55 to 65		ASTM D2240	
Tensile Strength	23.4	MPa	ASTM D638	
Tensile Elongation at Break	55	%	ASTM D638	
NOTE				
1.	Resin			
2.	Mixed			
3.	Hardener			
4.	24 hour at 77°F + 1 hour at 150"F			

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#### Recommended distributors for this material

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