## InnoTooling™ IE-9040

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

## Message:

IE-9040 is a slow reacting polyurethane formulated for room temperature hand-batch or vacuum assisted casting methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. This product is especially developed for translucent mass castings.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
	Yellow		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.06	g/cm³	
Hardener	1.06	g/cm³	
Base Resin	1.06	g/cm³	
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 20		
Hardener	Mix Ratio by Weight: 20		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	240 to 480	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.085	Pa·s	
25°C <sup>2</sup>	5.0	Pa·s	
25°C <sup>3</sup>	10	Pa·s	
Curing Time <sup>4</sup>	40	hr	
Gel Time	15 to 25	min	
Cured Properties	Nominal Value	Unit	Test Method

Tensile Modulus	86.2	MPa	ASTM D638
Tensile Strength	16.2	MPa	ASTM D638
Tensile Elongation at Break	200	%	ASTM D638
Tear Strength	54.3	kN/m	ASTM D624
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
4.	24 hours at 77°F + 16 hours at 150°F		

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## Recommended distributors for this material

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