

Innothane® IE-3077

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3077 is a rigid 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. IE-3077 has a very low mixed viscosity. It is ideal for color-matching due to its neutral semi-transparent appearance. Contact your Innovative representative to find out more about custom color-matching services.

General Information			
Features	High Rigidity		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.03	g/cm ³	
Cured	1.08	g/cm ³	
Base Resin	1.10	g/cm ³	
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1840	MPa	ASTM D790
Flexural Strength	64.8	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	60.0	°C	
1.8 MPa, Unannealed	55.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 94		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	20 to 40	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.040	Pa·s	
25°C ²	0.10	Pa·s	
25°C ³	0.25	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	4.0 to 6.0	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 80		ASTM D2240
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation at Break	10	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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