Innothane® IE-3075

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3075 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.

General Information			
Features	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.11	g/cm³	
Hardener	1.11	g/cm³	
Base Resin	1.25	g/cm³	
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2690	МРа	ASTM D790
Flexural Strength	114	MPa	ASTM D790
Compressive Modulus	2070	МРа	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	83.0	°C	
1.8 MPa, Unannealed	81.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 89		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	30 to 90	min	
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Viscosity				
25°C ¹	0.075	Pa·s		
25°C ²	0.30	Pa·s		
25°C ³	0.85	Pa·s		
Curing Time ⁴	40	hr		
Gel Time	6.0 to 10	min		
Cured Properties	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	75 to 85		ASTM D2240	
Tensile Strength	68.9	MPa	ASTM D638	
Tensile Elongation at Break	9.0	%	ASTM D638	
NOTE				
1.	Resin			
2.	Mixed			
3.	Hardener			
4.	24 hours at 77°F + 16 hours at 200°F			

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