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.

High Rigidity		
RoHS Compliant		
Translucent		
Vacuum Casting		
Nominal Value	Unit	Test Method
1.11	g/cm³	
1.11	g/cm³	
1.25	g/cm³	
0.20 to 0.40	%	ASTM D2566
Nominal Value	Unit	Test Method
2690	MPa	ASTM D790
114	MPa	ASTM D790
2070	MPa	ASTM D695
Nominal Value	Unit	Test Method
37	J/m	ASTM D256
Nominal Value	Unit	Test Method
		ASTM D648
83.0	°C	
81.0	°C	
Nominal Value	Unit	Test Method
	RoHS Compliant Translucent Vacuum Casting Nominal Value 1.11 1.11 1.25 0.20 to 0.40 Nominal Value 2690 114 2070 Nominal Value 37 Nominal Value 83.0 81.0	RoHS Compliant Translucent Vacuum Casting Nominal Value Unit 1.11 g/cm³ 1.11 g/cm³ 1.25 g/cm³ 0.20 to 0.40 % Nominal Value Unit 2690 MPa 114 MPa 2070 MPa 37 J/m 37 J/m 83.0 °C 83.0 °C

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	
Uncured Properties	Nominal Value	Unit	Test Method

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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