

Innothane® IE-80D

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-80D is a rigid polyurethane formulated for room temperature hand-batch processing 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-80D is particularly ideal for color-matching applications due to its neutral semi-transparent appearance.

General Information			
Features	High Rigidity		
RoHS Compliance	RoHS Compliant		
Appearance	Cream		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.07	g/cm ³	
Cured	1.12	g/cm ³	
Base Resin	1.20	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2170	MPa	ASTM D790
Compressive Modulus	3620	MPa	ASTM D695
Compressive Strength	55.2	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 89		
Demold Time	240 to 360	min	
Uncured Properties	Nominal Value	Unit	Test Method

Viscosity			
25°C ¹	0.050	Pa·s	
25°C ²	0.40	Pa·s	
25°C ³	0.80	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	13 to 17	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75 to 85		ASTM D2240
Tensile Strength	69.6	MPa	ASTM D638
Tensile Elongation at Break	8.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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