

Innothane® IE-70DBS

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-70DBS is a 70 shore D polyurethane formulated for room temperature hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	White		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.05	g/cm ³	
Cured	1.10	g/cm ³	
Base Resin	1.12	g/cm ³	
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790
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: 53		
Hardener	Mix Ratio by Weight: 50		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	960 to 1400	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.045	Pa · s	
25°C ²	0.20	Pa · s	
25°C ³	0.80	Pa · s	


Curing Time (25°C)	1.7E+2	hr	
Gel Time	1.2E+2 to 2.4E+2	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65 to 75		ASTM D2240
Tensile Strength	27.6	MPa	ASTM D638
Tensile Elongation at Break	4.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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