

Innothane® IE-90A

Polyurethane Thermoset Elastomer, Polyether Based
Innovative Polymers, Inc.

Message:

IE-90A is a tough, semi-flexible polyurethane elastomer formulated for hand-batch or vacuum assisted processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Cream		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.04	g/cm ³	
Cured	1.12	g/cm ³	
Base Resin	1.20	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 38		
Resin	Mix Ratio by Volume: 33		
Demold Time	240 to 480	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.10	Pa · s	
25°C ²	0.98	Pa · s	
25°C ³	1.5	Pa · s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	7.0 to 13	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	80 to 90		ASTM D2240
Tensile Strength	12.1	MPa	ASTM D638
Tensile Elongation at Break	180	%	ASTM D638

Tear Strength	37.7	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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