Innothane® IE-5000

Polyurethane Thermoset Elastomer Innovative Polymers, Inc.

Message:

IE-5000 is a soft, abrasion resistant elastomer formulated for room temperature hand-batch processing. The unique chemistry of the system imparts excellent electrical properties, hydrolytic stability, and flexibility at low temperatures. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI.

General Information				
Features	Good Abrasion Resistance			
	Good Electrical Properties			
	Hydrolytically Stable			
	Low Temperature Flexibility			
	Soft			
RoHS Compliance	RoHS Compliant			
Appearance	Clear Amber			
Processing Method	Encapsulating			
Physical	Nominal Value	Unit		
Specific Gravity				
Hardener	1.00	g/cm³		
Base Resin	1.11	g/cm³		
Electrical	Nominal Value	Unit	Test Method	
Surface Resistivity	2.8E+16	ohms	ASTM D270	
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
	Mix Ratio by Volume: 100			
Hardener	Mix Ratio by Weight: 100			
	Mix Ratio by Weight: 100			
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Resin	Mix Ratio by Volume: 90			
Demold Time	300 to 420	min	T 1. 1. 1.	
Uncured Properties	Nominal Value	Unit	Test Method	
Viscosity	0.050			
25°C ¹	0.050	Pa·s		
25°C ²	1.2	Pa·s		
25°C ³	4.8	Pa·s		

Curing Time ⁴	40	hr	
Gel Time	15 to 25	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	35 to 45		ASTM D2240
Tensile Strength	2.76	MPa	ASTM D638
Tensile Elongation at Break	200	%	ASTM D638
Tear Strength	13.1	kN/m	ASTM D624
Electric Strength (25°C)	22	kV/mm	ASTM D149
Relative Permittivity (25°C)	2.50		ASTM D150
Volume Resistivity	2.0E+16	ohms·cm	ASTM D270
Dissipation Factor (1 kHz, 25°C)	0.015		ASTM D150
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	24 hours at 77°F + 16 hours at 160°F		

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