

Innothane® IE-50AC

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-50AC is a tough, abrasion resistant elastomer formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. IE-50AC is particularly ideal for color-matching applications due to its transparent appearance.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.21	g/cm ³	
Base Resin	1.21	g/cm ³	
Hardener	1.23	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.40	%	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: 50		
Resin	Mix Ratio by Volume: 51		
Demold Time	120 to 240	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.045	Pa · s	
25°C ²	0.88	Pa · s	
25°C ³	1.4	Pa · s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	10 to 14	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	45 to 55		ASTM D2240

Tensile Strength	2.76	MPa	ASTM D638
Tensile Elongation at Break	150	%	ASTM D638
Tear Strength	17.5	kN/m	ASTM D624

NOTE

1.	Resin
2.	Mixed
3.	Hardener

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