

# Innothane® IE-60AC

Polyurethane Thermoset Elastomer, Polyester Based  
Innovative Polymers, Inc.

Message:

IE-60AC is a tough, abrasion resistant polyester based urethane formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

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 <sup>3</sup>	
Hardener	1.23	g/cm <sup>3</sup>	
Base Resin	1.27	g/cm <sup>3</sup>	
Molding Shrinkage - Flow	0.10 to 0.30	%	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: 49		
Demold Time	120 to 480	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.20	Pa · s	
25°C <sup>2</sup>	0.58	Pa · s	
25°C <sup>3</sup>	1.2	Pa · s	
Curing Time (25°C)	24	hr	
Gel Time	9.0 to 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	55 to 65		ASTM D2240
Tensile Strength	3.45	MPa	ASTM D638

Tensile Elongation at Break	200	%	ASTM D638
Tear Strength	13.1	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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