

# Innothane® IE-10AH

Polyurethane Thermoset Elastomer, Polyether Based

Innovative Polymers, Inc.

Message:

IE-10AH is a soft, flexible polyurethane/polyether based 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.

General Information			
Features	Good Flexibility		
	Soft		
RoHS Compliance	RoHS Compliant		
Appearance	Cream		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Base Resin	1.05	g/cm <sup>3</sup>	
Cured	1.06	g/cm <sup>3</sup>	
Hardener	1.07	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: 98		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	180 to 300	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C <sup>1</sup>	0.20	Pa · s	
25°C <sup>2</sup>	0.60	Pa · s	
25°C <sup>3</sup>	1.5	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)	5 to 15		ASTM D2240
Tensile Strength	1.03	MPa	ASTM D638

Tensile Elongation at Break	450	%	ASTM D638
Tear Strength	4.38	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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