

# InnoTuf® HP-1060A

Polyurethane Thermoset Elastomer, Polyester Based  
Innovative Polymers, Inc.

Message:

HP-1060A is a high performance 60 shore A polyester polyol based polyurethane formulated for hand-batch or meter mix processing methods. Excellent physical properties can be obtained with a post cure without the utilization of mercury, MOCA, or TDI.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.16	g/cm <sup>3</sup>	
Cured	1.18	g/cm <sup>3</sup>	
Base Resin	1.20	g/cm <sup>3</sup>	
Molding Shrinkage - Flow	1.0 to 1.5	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	4.00	mg	ASTM D4060
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 43		
Resin	Mix Ratio by Volume: 42		
Demold Time (66°C)	1300 to 1400	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
60°C <sup>1</sup>	0.70	Pa · s	
60°C <sup>2</sup>	0.72	Pa · s	
60°C <sup>3</sup>	0.73	Pa · s	
Curing Time <sup>4</sup>	1.8E+2	hr	
Gel Time	5.0 to 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	55 to 65		ASTM D2240
Tensile Strength	5.86	MPa	ASTM D638

Tensile Elongation at Break	800	%	ASTM D638
Tear Strength	22.8	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	16 hours at 150°F + 7 days at 77°F		

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