

InnoTuf® HP-1090A

Polyurethane Thermoset Elastomer, Polyester Based
Innovative Polymers, Inc.

Message:

HP-1090A is a high performance 90 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	1.13	g/cm ³	
Cured	1.16	g/cm ³	
Base Resin	1.20	g/cm ³	
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)	15.0	mg	ASTM D4060
Elastomers	Nominal Value	Unit	Test Method
Tear Strength (Split)	20	kN/m	ASTM D470
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 82		
Resin	Mix Ratio by Volume: 77		
Demold Time (66°C)	60 to 180	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
43°C ¹	0.60	Pa · s	
43°C ²	0.85	Pa · s	
43°C ³	1.5	Pa · s	
Curing Time ⁴	1.8E+2	hr	
Gel Time	10 to 16	min	
Cured Properties	Nominal Value	Unit	Test Method

Shore Hardness (Shore A)	85 to 95		ASTM D2240
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation at Break	470	%	ASTM D638
Tear Strength	66.5	kN/m	ASTM D624

NOTE

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| 1. | Hardener |
| 2. | Mixed |
| 3. | Resin |
| 4. | 16 hours at 150°F + 7 days at 77°F |

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