

InnoTuf® HP-2190A

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

HP-2190A is a tough, abrasion resistant elastomer formulated for hand-mix processing methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or MDI.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.06	g/cm ³	
Cured	1.08	g/cm ³	
Base Resin	1.08	g/cm ³	
Molding Shrinkage - Flow	0.30 to 0.60	%	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)	21	kN/m	ASTM D470
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 31		
Hardener	Mix Ratio by Weight: 30		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	240 to 360	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.35	Pa · s	
25°C ²	3.3	Pa · s	
25°C ³	7.1	Pa · s	

Curing Time (25°C)	1.7E+2	hr	
Gel Time	20 to 30	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	85 to 95		ASTM D2240
Tensile Strength	23.4	MPa	ASTM D638
Tensile Elongation at Break	250	%	ASTM D638
Tear Strength	63.0	kN/m	ASTM D624
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		

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