

InnoTuf® HP-2170D

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

HP-2170D 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			
Base Resin	1.08	g/cm³	
Cured	1.09	g/cm³	
Hardener	1.20	g/cm³	
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	414	MPa	ASTM D790
Flexural Strength	18.6	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	50.0	mg	ASTM D4060
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	J/m	ASTM D256
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 20		
Hardener	Mix Ratio by Weight: 22		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	60 to 180	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.60	Pa·s	

25°C ²	3.8	Pa·s	
25°C ³	4.6	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	10 to 20	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65 to 75		ASTM D2240
Tensile Strength	34.5	MPa	ASTM D638
Tensile Elongation at Break	180	%	ASTM D638
Tear Strength	140	kN/m	ASTM D624
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		

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