

InnoTuf® HP-2140A

Polyurethane Thermoset Elastomer, Polyether Based
Innovative Polymers, Inc.

Message:

HP-2140A is a high performance polyether based polyurethane elastomer formulated for hand-batch processing methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or MDI.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.03	g/cm ³	
Cured	1.04	g/cm ³	
Base Resin	1.06	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 50		
Hardener	Mix Ratio by Weight: 47		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	300 to 420	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.13	Pa · s	
25°C ²	0.48	Pa · s	
25°C ³	0.63	Pa · s	
Curing Time ⁴	29	hr	
Gel Time	20 to 30	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	35 to 45		ASTM D2240
Tensile Strength	4.14	MPa	ASTM D638
Tensile Elongation at Break	480	%	ASTM D638
Tear Strength	16.6	kN/m	ASTM D624
NOTE			

1.	Hardener
2.	Mixed
3.	Resin
4.	5 hours at 150°F + 24 hours at 77°F

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