

Innothane® IE-52A

Polyurethane Thermoset Elastomer, Polyether Based

Innovative Polymers, Inc.

Message:

IE-52A is an elastic Polyether system formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. IE-52A is particularly ideal for color-matching due to it's neutral color.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	Off-White		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.09	g/cm ³	
Hardener	1.09	g/cm ³	
Base Resin	1.13	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.40	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 100		
	Mix Ratio by Weight: 40		
Resin	Mix Ratio by Volume: 38		
Demold Time	720 to 1200	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.075	Pa · s	
25°C ²	0.80	Pa · s	
25°C ³	1.4	Pa · s	
Curing Time ⁴	40	hr	
Gel Time	20 to 30	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	45 to 55		ASTM D2240
Tensile Strength	6.21	MPa	ASTM D638
Tensile Elongation at Break	520	%	ASTM D638
Tear Strength	21.0	kN/m	ASTM D624
NOTE			

1.	Resin
2.	Mixed
3.	Hardener
4.	24 hours at 77°F + 16 hours at 150°F

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