

Innothane® IE-70A

Polyurethane Thermoset Elastomer, Polyether Based
Innovative Polymers, Inc.

Message:

IE-70A is a soft, flexible polyurethane elastomer formulated for hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI.

General Information			
Features	Good Flexibility		
	Soft		
RoHS Compliance	RoHS Compliant		
Appearance	Cream		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.04	g/cm ³	
Cured	1.12	g/cm ³	
Base Resin	1.20	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	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: 34		
Resin	Mix Ratio by Volume: 29		
Demold Time	360 to 600	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.10	Pa · s	
25°C ²	0.98	Pa · s	
25°C ³	1.5	Pa · s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	7.0 to 13	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	65 to 75		ASTM D2240
Tensile Strength	11.7	MPa	ASTM D638

Tensile Elongation at Break	250	%	ASTM D638
Tear Strength	31.5	kN/m	ASTM D624
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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