

Innothane® IE-35A

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-35A is a flexible polyurethane formulated for hand-batch processing or vacuum assisted 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		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.21	g/cm ³	
Hardener	1.21	g/cm ³	
Base Resin	1.21	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.60	%	ASTM D2566
Thermoset	Nominal Value	Unit	Test Method
Demold Time	60 to 180	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.20	Pa · s	
25°C ²	0.85	Pa · s	
25°C ³	2.1	Pa · s	
Curing Time ⁴	40	hr	
Gel Time	10 to 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	30 to 40		ASTM D2240
Tensile Strength	1.72	MPa	ASTM D638
Tensile Elongation at Break	360	%	ASTM D638
Tear Strength	7.88	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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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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