

Innothane® IE-3070

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3070 is a rigid polyurethane formulated for hand-batch processing or vacuum cast methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA or TDI. It has excellent green strength yielding enhanced demold characteristics and also yields easy to paint surfaces requiring little preparation.

General Information			
Features	Good Green Strength Good Mold Release High Rigidity Paintable		
RoHS Compliance	RoHS Compliant		
Appearance	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.06	g/cm ³	
Hardener	1.06	g/cm ³	
Base Resin	1.16	g/cm ³	
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength	49.0	MPa	ASTM D790
Compressive Modulus	1140	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	66.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 100		
Hardener	Mix Ratio by Weight: 92		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	30 to 50	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.075	Pa·s	
25°C ²	0.15	Pa·s	
25°C ³	0.45	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	6.0 to 10	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65 to 75		ASTM D2240
Tensile Strength	34.1	MPa	ASTM D638
Tensile Elongation at Break	24	%	ASTM D638
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

