

InnoTooling™ IE-9070

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-9070 is a slow reacting polyurethane formulated for room temperature hand mix dispensing methods. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. This product is especially developed for translucent mass castings.

General Information			
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent Yellow		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.07	g/cm ³	
Hardener	1.07	g/cm ³	
Base Resin	1.07	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: 20		
Hardener	Mix Ratio by Weight: 20		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	240 to 480	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.19	Pa · s	
25°C ²	2.4	Pa · s	
25°C ³	6.5	Pa · s	
Curing Time ⁴	40	hr	
Gel Time	15 to 25	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	65 to 75		ASTM D2240
Tensile Strength	5.52	MPa	ASTM D638

Tensile Elongation at Break	300	%	ASTM D638
Tear Strength	17.5	kN/m	ASTM D624

NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
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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