

InnoTooling™ IE-9060

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-9060 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 compliance		
Appearance	Yellow		
	Clear/transparent		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.06	g/cm ³	
Cured	1.07	g/cm ³	
Matrix resin	1.10	g/cm ³	
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	24.8	MPa	ASTM D790
Flexural Strength	13.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	750	J/m	ASTM D256
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mixing ratio by capacity: 100		
Resin	Mixing ratio by weight: 100		
	Mixing ratio by capacity: 42		
Hardening method	Mixing ratio by weight: 40		
Demold Time	180 - 420	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.15	Pa·s	
25°C ²	3.3	Pa·s	
25°C ³	6.9	Pa·s	

Curing Time ⁴	40	hr	
Gel Time	14 - 20	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	50 - 60		ASTM D2240
Tensile Strength	22.4	MPa	ASTM D638
Tensile Elongation at Break	250	%	ASTM D638
Tear Strength	96.3	kN/m	ASTM D624

NOTE

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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

