

InnoTooling™ IE-644-08

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-644-08 is a tough, impact resistant elastomer formulated for room temperature hand-batch systems. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury or MOCA.

General Information			
Features	Good Impact Resistance		
	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.16	g/cm ³	
Base Resin	1.16	g/cm ³	
Hardener	1.20	g/cm ³	
Molding Shrinkage - Flow	0.10	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	621	MPa	ASTM D790
Flexural Strength	31.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 58		
Hardener	Mix Ratio by Weight: 60		
	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	0.18	Pa · s	
25°C ²	1.6	Pa · s	
25°C ³	4.5	Pa · s	

Curing Time ⁴	40	hr	
Gel Time	14 to 18	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	57 to 67		ASTM D2240
Tensile Strength	31.0	MPa	ASTM D638
Tensile Elongation at Break	20	%	ASTM D638
Tear Strength	74.4	kN/m	ASTM D624

NOTE

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

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