InnoTooling™ IE-644-02

Polyurethane Thermoset Elastomer Innovative Polymers, Inc.

Message:

IE-644-02 is a tough, abrasion resistant elastomer formulated for room temperature hand-batch processing. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA, or TDI. IE-644-02 is ideal for very large parts as well as mass casting and tooling.

General Information				
Features	Good Abrasion Resistance			
	Good Toughness			
RoHS Compliance	RoHS Compliant			
Appearance	Amber			
Processing Method	Casting			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
Hardener	1.09	g/cm³		
Cured	1.10	g/cm³		
Base Resin	1.13	g/cm³		
Molding Shrinkage - Flow	0.40	%	ASTM D2566	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact	320	J/m	ASTM D256	
Thermoset	Nominal Value	Unit	Test Method	
Thermoset Components				
	Mix Ratio by Volume: 26			
Hardener	Mix Ratio by Weight: 25			
	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	0.10	Pa·s		
25°C ²	3.0	Pa·s		
25°C ³	3.7	Pa·s		
Curing Time ⁴	40	hr		
Gel Time	20 to 30	min		

Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore A)	75 to 85		ASTM D2240
Tensile Strength	6.89	MPa	ASTM D638
Tensile Elongation at Break	190	%	ASTM D638
Tear Strength	26.3	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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