

Innothane® IE-60DC

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-60DC 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.

General Information			
Features	Good Abrasion Resistance		
	Good Toughness		
RoHS Compliance	RoHS Compliant		
Appearance	Amber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Hardener	1.06	g/cm ³	
Cured	1.10	g/cm ³	
Base Resin	1.12	g/cm ³	
Molding Shrinkage - Flow	0.020	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	103	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	60.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 13		
Hardener	Mix Ratio by Weight: 12		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		
Demold Time	120 to 240	min	
Additional Information	Nominal Value	Unit	Test Method
Peak Exotherm - 200g mass	49	°C	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.25	Pa · s	

25°C ²	2.2	Pa·s	
25°C ³	2.8	Pa·s	
Curing Time (25°C)	24	hr	
Gel Time	9.0 to 13	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	35 to 45		ASTM D2240
Tensile Strength	11.9	MPa	ASTM D638
Tensile Elongation at Break	190	%	ASTM D638
Tear Strength	36.8	kN/m	ASTM D624
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		

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