

Innothane® IE-3031

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3031 is a rigid polyurethane formulated for room temperature hand-batch or meter-mix equipment. Excellent physical properties can be obtained with a room temperature cure without the utilization of mercury, MOCA or TDI. It has excellent green strength yielding enhanced demold characteristics and also yields easy to paint surfaces requiring little preparation.

General Information			
Features	Good Green Strength		
	Good Mold Release		
	High Rigidity		
	Paintable		
RoHS Compliance	RoHS Compliant		
Appearance	White		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.08	g/cm ³	
Hardener	1.08	g/cm ³	
Base Resin	1.19	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1860	MPa	ASTM D790
Flexural Strength	70.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	75.0	°C	
1.8 MPa, Unannealed	70.0	°C	
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Mix Ratio by Volume: 100			
Hardener	Mix Ratio by Weight: 91		

Mix Ratio by Weight: 100

Resin	Mix Ratio by Volume: 100		
Demold Time	7.5 to 13	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.075	Pa·s	
25°C ²	0.15	Pa·s	
25°C ³	0.45	Pa·s	
Curing Time (25°C)	1.7E+2	hr	
Gel Time	1.5 to 2.5	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70 to 80		ASTM D2240
Tensile Strength	34.5	MPa	ASTM D638
Tensile Elongation at Break	20	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		

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