

Innothane® IE-3076

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

IE-3076 is an 80 shore D polyurethane 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-3076 is particularly ideal for color-matching applications due to its neutral, semi-transparent appearance.

General Information			
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.11	g/cm ³	
Hardener	1.11	g/cm ³	
Matrix resin	1.25	g/cm ³	
Molding Shrinkage - Flow	0.20 - 0.40	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	83.0	°C	ASTM D648
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mixing ratio by capacity: 100		
Resin	Mixing ratio by weight: 100		
	Mixing ratio by capacity: 100		
Hardening method	Mixing ratio by weight: 89		
Demold Time	60 - 180	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
25°C ¹	0.075	Pa · s	
25°C ²	0.30	Pa · s	

25°C ³	0.85	Pa·s	
Curing Time ⁴	40	hr	
Gel Time	10 - 15	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	75 - 85		ASTM D2240
Tensile Strength	68.9	MPa	ASTM D638
Tensile Elongation at Break	9.0	%	ASTM D638
NOTE			
1.	Resin		
2.	Mixed		
3.	Hardener		
4.	24 hours at 77°F + 16 hours at 200°F		

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