

InnoTuf® TP-4016

Polyurethane Thermoset Elastomer

Innovative Polymers, Inc.

Message:

TP-4016 is an impact resistant polyurethane formulated for room temperature meter-mix dispensing systems. Excellent physical properties can be obtained without the utilization of mercury, MOCA, or TDI. TP 4016 is a U.L. 94v1 registered flame retardant polyurethane.

General Information			
Features	Flame Retardant		
	Good Impact Resistance		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Base Resin	1.22	g/cm ³	
Cured	1.25	g/cm ³	
Hardener	1.28	g/cm ³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1030	MPa	ASTM D790
Flexural Strength	44.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-1		UL 94
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
	Mix Ratio by Volume: 50		
Hardener	Mix Ratio by Weight: 52		
	Mix Ratio by Weight: 100		
Resin	Mix Ratio by Volume: 100		

Demold Time	120 to 240	min	
Uncured Properties	Nominal Value	Unit	Test Method
Viscosity			
38°C ¹	0.20	Pa·s	
38°C ²	0.35	Pa·s	
38°C ³	0.70	Pa·s	
Curing Time ⁴	25	hr	
Gel Time	5.0 to 7.0	min	
Cured Properties	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65 to 75		ASTM D2240
Tensile Modulus	689	MPa	ASTM D638
Tensile Strength	46.9	MPa	ASTM D638
Tensile Elongation at Break	20	%	ASTM D638
NOTE			
1.	Hardener		
2.	Mixed		
3.	Resin		
4.	1 hour at 150°F + 24 hours at 77°F		

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