InnoTuf® TP-4052

Polyurethane Thermoset Elastomer Innovative Polymers, Inc.

Message:

TP-4052 is a rigid, impact resistant polyurethane formulated for hand-batch processing, vacuum assist casting or meter mix dispense methods Excellent physical properties can be obtained with a mild post cure without the utilization of mercury, MOCA or TDI TP-4052 is a tough ABS simulated product with a very low mixed viscosity

General Information			
Features	Good Toughness		
	High Impact Resistance		
	High Rigidity		
	Low Exotherm		
	Low Viscosity		
RoHS Compliance	RoHS Compliant		
Appearance	White		
Processing Method	Vacuum Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
Cured	1.10	g/cm³	
Hardener	1.10	g/cm³	
Base Resin	1.16	g/cm³	
Molding Shrinkage - Flow	0.10 to 0.50	%	ASTM D2566
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	1550	MPa	ASTM D790
Flexural Strength	88.3	МРа	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	91	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45			
MPa, Unannealed)	71.0	°C	ASTM D648
Thermoset	Nominal Value	Unit 	Test Method
Thermoset Components			
	Mix Ratio by Volume: 53		
Hardener	Mix Ratio by Weight: 50		

Resin	Mix Ratio by Volume: 100	Mix Ratio by Volume: 100		
Demold Time	60 to 120	min		
Uncured Properties	Nominal Value	Unit	Test Method	
Viscosity				
38°C ¹	0.40	Pa·s		
38°C ²	0.60	Pa·s		
38°C ³	1.0	Pa·s		
Curing Time ⁴	26	hr		
Gel Time	5.0 to 9.0	min		
Cured Properties	Nominal Value	Unit	Test Method	
Shore Hardness (Shore D)	75 to 85		ASTM D2240	
Tensile Strength	57.9	MPa	ASTM D638	
Tensile Elongation at Break	12	%	ASTM D638	
NOTE				
1.	Resin			
2.	Mixed			
3.	Hardener			
4.	2 hours at 150°F + 24 hours at 77°F			

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