

Therma-Tech™ TT6600-5001 EC Grey

Polyamide 66
PolyOne Corporation

Message:

Therma-Tech™ Thermal Management Compounds have been engineered to combine the heat transfer and cooling capabilities of metals with the design freedom, weight reduction and cost advantages of thermoplastics. These materials provide the benefits of proprietary conductive additive technologies and the performance of select engineering thermoplastic resins. Therma-Tech compounds have been shown to improve thermal conductivity up to 100-times that of conventional plastics and can be used in a wide range of thermal management applications.

General Information			
UL YellowCard	E76261-102230096		
Features	Electrically Conductive		
	Thermally Conductive		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Consumer Applications		
	Electrical/Electronic Applications		
	Housings		
	Industrial Applications		
UL File Number	E76261		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.64	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.20 to 0.40	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	14700	MPa	ISO 527
Tensile Strength ² (Break, 23°C)	65.0	MPa	ISO 527
Tensile Elongation ³ (Break, 23°C)	0.50 to 0.80	%	ISO 527
Flexural Modulus ⁴ (23°C)	13000	MPa	ISO 178
Flexural Strength ⁵ (23°C)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	7.0	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	260	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	°C	ISO 75-2/A
Thermal Conductivity			

23°C ⁶	2.3 to 2.7	W/m/K	
-- ⁷	4.5 to 5.5	W/m/K	ASTM E1461
-- ⁸	19 to 21	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.00 mm	HB		
1.50 mm	HB		
3.00 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
1.00 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	850	°C	
1.50 mm	925	°C	
3.00 mm	925	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Processing (Melt) Temp	275 to 300	°C	
Mold Temperature	80.0 to 105	°C	
NOTE			
1.	Type I, 1.0 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	10 mm/min		
5.	10 mm/min		
6.	Through Plane with Modified Transient Plane Source, C-Therm TCi™		
7.	Through Plane		
8.	In Plane		

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