Therma-Tech™ TT6600-5008 EC Anthracite

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					
Features	Electrically Conductive				
	Thermally Conductive				
Uses	Automotive Applications				
	Automotive Under the Hood				
	Consumer Applications				
	Electrical/Electronic Applications				
	Housings				
	Industrial Applications				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.61	g/cm ³	ISO 1183		
Molding Shrinkage - Flow	0.40 to 0.60	%	ISO 294-4		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus ¹ (23°C)	12000	MPa	ISO 527		
Tensile Strength ² (Break, 23°C)	70.0	MPa	ISO 527		
Tensile Elongation ³ (Break, 23°C)	0.50 to 1.0	%	ISO 527		
Flexural Modulus ⁴ (23°C)	11000	MPa	ISO 178		
Flexural Strength ⁵ (23°C)	100	MPa	ISO 178		
Impact	Nominal Value	Unit	Test Method		
Charpy Notched Impact Strength	2.5	kJ/m ²	ISO 179/1eA		
Charpy Unnotched Impact Strength	9.0	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	2.0 to 2.5	W/m/K			
23°C ⁷	13 to 16	W/m/K	ASTM E1461		

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	НВ		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.800 mm	960	°C	
1.60 mm	960	°C	
3.00 mm	960	°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.	In-Plane		

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