

Therma-Tech™ X TT6600-5001-8 EC

Polyamide 66
PolyOne Corporation

Message:

Therma-Tech™ Thermal management compound materials combine the heat transfer and cooling capabilities of metals with ease of processing, the light weight and cost advantages of thermoplastics. These materials use patented conductive additive technology and the properties of selected engineering thermoplastic resins. Compared with traditional plastics, Therma-Tech compound materials have a thermal conductivity of 100 times and can be used for a wide range of thermal management applications.

General Information			
Features	Conductivity		
	Heat conduction		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Parts under the hood of a car		
	Application in Automobile Field		
	Shell		
	Consumer goods application field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.65	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	20700	MPa	ASTM D638
Tensile Strength (Break, 23°C)	62.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	0.50 - 1.0	%	ASTM D638
Flexural Modulus (23°C)	16600	MPa	ASTM D790
Flexural Strength (23°C)	97.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.40 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity ¹	19 - 21	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+5	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	80 - 90	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.20	%	

Processing (Melt) Temp	275 - 300	°C
Mold Temperature	80 - 105	°C
NOTE		
1.	In-plane	

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Recommended distributors for this material

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