Therma-Tech™ X TT6000-8711 EI NHFR WHITE

Polyamide 6

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 Insulating Thermally Conductive		
Uses	Automotive Applications Automotive Under the Hood Consumer Applications Electrical/Electronic Applications Housings Industrial Applications		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.80	g/cm³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.40 to 0.60	%	
Across Flow	0.60 to 0.80	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm)	13800	MPa	ASTM D638
Tensile Strength [2] (3.20 mm)	75.8	MPa	ASTM D638
Tensile Elongation [3] (Break, 3.20 mm)	1.0	%	ASTM D638
Flexural Modulus (3.20 mm)	10300	MPa	ASTM D790
Flexural Strength (3.20 mm)	131	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	32	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	215	°C	
1.8 MPa, Unannealed	190	°C	
Thermal Conductivity			ASTM E1461

-- [4]	1.0 to 1.4	W/m/K	
-- [5]	1.0 to 2.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	220 to 280	°C	
Mold Temperature	65.0 to 85.0	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	Through-Plane		
5.	In-Plane		

Recommended distributors for this material

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