Therma-Tech™ X TT9200-8706 EC

Polyphenylene Sulfide

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		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.70	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm)	22100	MPa	ASTM D638
Tensile Strength [2] (3.20 mm)	58.6	MPa	ASTM D638
Tensile Elongation [3] (Break, 3.20 mm)	0.50	%	ASTM D638
Flexural Modulus (3.20 mm)	20700	MPa	ASTM D790
Flexural Strength (3.20 mm)	86.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Thermal Conductivity			ASTM E1461
-- [4]	3.0 to 4.0	W/m/K	
-- [5]	14 to 15	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+2 to 9.0E+3	ohms	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating (1.60 mm)	V-0		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	140 to 150	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	320 to 340	°C	
Mold Temperature	140 to 160	°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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