

Therma-Tech™ TT9200-5001 EI White

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	
Filler / Reinforcement	Glass Fiber Mineral
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	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.90	g/cm ³	ISO 1183
Molding Shrinkage - Flow (Injection Molded)	0.10 to 0.40	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	15000	MPa	ISO 527
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1/50
Tensile Elongation ² (Break)	0.50 to 1.0	%	ISO 527
Flexural Modulus ³ (Injection Molded)	12300	MPa	ISO 178
Flexural Strength ⁴ (Injection Molded)	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	12	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	220	°C	ISO 75-2/A
Thermal Conductivity			ASTM E1461
23°C ⁵	0.80 to 1.2	W/m/K	
23°C ⁶	0.70 to 1.1	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+11	ohms	IEC 60093
Dielectric Strength (0.750 mm)	> 4.0	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Glow Wire Flammability Index (3.00 mm)	> 960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Processing (Melt) Temp	310 to 340	°C	
Mold Temperature	140 to 170	°C	
NOTE			
1.	Type I, 1.0 mm/min		
2.	Type I, 50 mm/min		
3.	10 mm/min		
4.	10 mm/min		
5.	In Plane		
6.	Through-Plane		

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