

# Therma-Tech™ TT9200-8705 EI Black

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 Insulating		
	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	1.64	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (3.20 mm)	14800	MPa	ASTM D638
Tensile Strength <sup>2</sup> (3.20 mm)	83.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 3.20 mm)	1.0	%	ASTM D638
Flexural Modulus <sup>4</sup> (3.20 mm)	11700	MPa	ASTM D790
Flexural Strength <sup>5</sup> (3.20 mm)	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.40 mm)	43	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	277	°C	
1.8 MPa, Unannealed	260	°C	
Thermal Conductivity <sup>6</sup>	2.0	W/m/K	ASTM E1461
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+12	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 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 330	°C	
Mold Temperature	140 to 160	°C	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	5.0 mm/min		
6.	In-Plane		

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#### Recommended distributors for this material

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