

Therma-Tech™ TT9200-5010 EC Anthracite

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 reinforced material
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
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Extrusion
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.79	g/cm ³	ISO 1183
Molding Shrinkage - Flow (Injection Molded)	0.10 - 0.30	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	17500	MPa	ISO 527
Tensile Stress (Break)	64.0	MPa	ISO 527-2/1/50
Tensile Elongation ² (Break)	0.30 - 0.50	%	ISO 527
Flexural Modulus ³ (Injection Molded)	16000	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)	2.8	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	6.3	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	240	°C	ISO 75-2/A

Thermal Conductivity ⁵	2.0 - 2.4	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+4	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.8 mm	V-0		UL 94
1.5 mm	5VA		UL 94
3.0 mm	5VA		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.8 mm	960	°C	IEC 60695-2-12
1.6 mm	960	°C	IEC 60695-2-12
3.0 mm	> 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.6 mm	> 960	°C	IEC 60695-2-13
3.0 mm	> 960	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Processing (Melt) Temp	310 - 340	°C	
Mold Temperature	140 - 170	°C	
NOTE			
1.	Type 1, 1.0mm/min		
2.	Type 1, 50mm/min		
3.	10 mm/min		
4.	10 mm/min		
5.	Through Plane with Modified Transient Plane Source technique, C-Therm TCI™		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT