Therma-Tech™ TT3300-8701 EI FR

Polybutylene Terephthalate

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.
Internal Code: EM01041094BG

General Information			
UL YellowCard	E76261-101255586		
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	2.02	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.50 to 1.0	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (3.20 mm)	8970	MPa	ASTM D638
Tensile Strength [2] (3.20 mm)	52.0	MPa	ASTM D638
Tensile Elongation [3] (Break, 3.20 mm)	1.0	%	ASTM D638
Flexural Modulus [4] (3.20 mm)	8970	MPa	ASTM D790
Flexural Strength [5] (3.20 mm)	83.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	69	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	218	°C	
1.8 MPa, Unannealed	193	°C	

Thermal Conductivity			ASTM E1461
-- [6]	0.90	W/m/K	
-- [7]	2.0	W/m/K	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength	7.0	kV/mm	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110 to 130	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	75.0 to 95.0	°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.	Through-Plane		
7.	In-Plane		

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