

# Therma-Tech™ X TT3300-8704 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.

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	White		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup> (3.20 mm)	15200	MPa	ASTM D638
Tensile Strength <sup>2</sup> (3.20 mm)	44.8	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 3.20 mm)	0.50	%	ASTM D638
Flexural Modulus (3.20 mm)	11000	MPa	ASTM D790
Flexural Strength (3.20 mm)	68.9	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
Deflection Temperature Under Load (1.8 MPa, Unannealed)	205	°C	ASTM D648
Thermal Conductivity <sup>4</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 (0.800 mm)	V-0	Internal Method
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.	In-Plane	

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