

RTP 2187 HEC

Polyether Imide

RTP Company

Message:

Nickel-Coated Carbon Fiber - Electrically Conductive - EMI/RFI/ESD Protection

General Information			
Filler / Reinforcement	Nickel-plated carbon fiber, 40% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Electrostatic discharge protection		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.010 - 0.10	%	ASTM D955
Moisture Content	0.040	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	159	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+3	ohms	ASTM D257
--	< 1.0E+2	ohms	ESD STM11.11
Volume Resistivity	< 1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	

Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	82.7 - 124	MPa

Injection instructions

Remove hopper magnets.Desiccant Type Dryer Required.

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