

RTP 2181 HEC

Polyether Imide

RTP Company

Message:

Nickel-Coated Carbon Fiber - Electrically Conductive - EMI/RFI Shielding

General Information			
Filler / Reinforcement	Nickel-plated carbon fiber, 10% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.20	%	ASTM D955
Moisture Content	0.040	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	10	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength	114	MPa	ASTM D638
Tensile Elongation (Yield)	2.5 - 4.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	430	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+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm, ** Values per RTP Company testing.	V-0		UL 94

3.00 mm, ** Values per RTP Company testing.			5VA	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.				
NOTE				
1.	MIL-PRF-81705D, 5kV to 50 V, 12% RH			

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