

RTP 2283 HEC

Polyetheretherketone
RTP Company

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

General Information			
Filler / Reinforcement	Nickel plated carbon fiber, 20% 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	1.43	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.30	%	ASTM D955
Moisture Content	0.10	%	
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13100	MPa	ASTM D638
Tensile Strength	155	MPa	ASTM D638
Tensile Elongation (Yield)	< 2.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	224	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+4	ohms	ASTM D257
--	< 1.0E+3	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	349 - 399	°C	
Mold Temperature	163 - 218	°C	

Injection Pressure	82.7 - 124	MPa
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Injection instructions

Remove hopper magnets.Desiccant Type Dryer Required.

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Recommended distributors for this material

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