

RTP 2583 HEC

Polycarbonate + ABS

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	1.29	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10000	MPa	ASTM D638
Tensile Strength	123	MPa	ASTM D638
Tensile Elongation (Yield)	1.7	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	380	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
Injection	Nominal Value	Unit	
Drying Temperature	93.3	°C	
Drying Time	4.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	243 - 274	°C	
Mold Temperature	51.7 - 93.3	°C	

Injection Pressure	68.9 - 103	MPa
Injection instructions		
Remove hopper magnets.Desiccant Type Dryer Required.		
NOTE		

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| 1. | MIL-PRF-81705D, 5kV to 50 V, 12% RH |
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