

RTP 2585 HEC

Polycarbonate + ABS

RTP Company

Message:

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

General Information			
Filler / Reinforcement	Nickel-plated carbon fiber, 30% 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	1.38	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Moisture Content	0.020	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14500	MPa	ASTM D638
Tensile Strength	129	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	13800	MPa	ASTM D790
Flexural Strength	193	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)	320	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	< 0.10	ohms · cm	ASTM D257
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		
Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.Desiccant Type Dryer Required.		

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Recommended distributors for this material

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