

RTP 2583 HEC FR

Polycarbonate + ABS

RTP Company

Message:

Nickel-Coated Carbon Fiber - EMI/RFI Shielding - Electrically Conductive - Flame Retardant - UL94 V-0

General Information			
UL YellowCard	E84658-251338		
Filler / Reinforcement	Nickel plated carbon fiber, 20% filler by weight		
Features	Conductivity		
	Electromagnetic shielding (EMI)		
	Radio frequency shielding (RFI)		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Moisture Content	0.020	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12400	MPa	ASTM D638
Tensile Strength	123	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength	165	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)	290	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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		UL 94

3.00 mm	5VA	UL 94
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.

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