RTP 287 HEC

Polyamide 66

RTP Company

Message:

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

General Information			
Filler / Reinforcement	Nickel-plated carbon fiber, 40% 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	1.39	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.20	%	ASTM D955
Moisture Content	0.20	%	
Static Decay [1]		sec	FTMS 101C 4046.1
Primary Additive	40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	17900	MPa	ASTM D638
Tensile Strength	160	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 2.0	%	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	260	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	249	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
--	< 1.0E+3	ohms	ASTM D257
--	< 1.0E+2	ohms	ESD STM11.11
Volume Resistivity	< 1.0	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	HB		UL 94

Injection	Nominal Value	Unit
Drying Temperature	79.4	°C
Drying Time	4.0	hr
Dew Point	-17.8	°C
Processing (Melt) Temp	282 - 299	°C
Mold Temperature	65.6 - 107	°C
Injection Pressure	68.9 - 124	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.Remove hopper magnets.Desiccant Type Dryer Required.

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

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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