RTP EMI 2161

Polyether Imide

RTP Company

Message:

Stainless Steel Fiber - Electrically Conductive - EMI/RFI/ESD Protection

General Information			
Filler / Reinforcement	Stainless steel fiber, 10% 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)	0.60 - 0.80	%	ASTM D955
Moisture Content	0.040	%	
Static Decay [1]		sec	FTMS 101C 4046.1
Primary Additive	10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3720	MPa	ASTM D638
Tensile Strength	109	MPa	ASTM D638
Tensile Elongation (Yield)	5.0 - 9.0	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	152	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)	590	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	207	°C	ASTM D648
1.8 MPa, not annealed	199	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
--	< 1.0E+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**

Flame Rating (0.800 mm, ** Values per RTP Company testing.)	V-0	UL 94

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	354 - 399	°C
Mold Temperature	135 - 177	°C
Injection Pressure	82.7 - 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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