RTP EMI 1363

Polyphenylene Sulfide

RTP Company

Message:

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

General Information			
Filler / Reinforcement	Stainless steel 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	1.55	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.60	%	ASTM D955
Moisture Content	0.040	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5520	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Yield)	2.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.20 mm)	27	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	210	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	< 1.0	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	149	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	307 - 324	°C	
Mold Temperature	135 - 177	°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.Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 0.200 in (5 mm) minimum, in feed section, Screw diameter 0.65 - 0Remove hopper magnets.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

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