RTP EMI 2163

Polyether Imide

RTP Company

Message:

Stainless Steel Fiber - Electrically Conductive - EMI/RFI Shielding

General Information			
Filler / Reinforcement	Stainless steel fiber, 20% 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	1.52	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	ASTM D955
Moisture Content	0.040	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength	112	MPa	ASTM D638
Tensile Elongation (Yield)	3.5 - 5.5	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	186	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)	480	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	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.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.Desiccant Type Dryer Required.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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Phone: +86 13424755533

Email: sales@su-jiao.com

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