

RTP EMI 2563 FR

Polycarbonate + ABS

RTP Company

Message:

Stainless Steel Fiber - EMI/RFI Shielding - Electrically Conductive - Flame Retardant

General Information			
Filler / Reinforcement	Stainless steel 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	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30 - 0.60	%	ASTM D955
Moisture Content	0.020	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength	66.9	MPa	ASTM D638
Tensile Elongation (Yield)	1.0 - 3.0	%	ASTM D638
Flexural Modulus	4140	MPa	ASTM D790
Flexural Strength	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	370	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648
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
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94

1.50 mm, ** Values per RTP Company testing.	V-0	UL 94
3.00 mm, ** Values per RTP Company testing.	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		

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 - 0.75 in. Remove hopper magnets. Desiccant Type Dryer Required.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co., Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

