RTP EMI 2863-75A

Thermoplastic Polyolefin Elastomer

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.
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	1.04	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	1.0 - 1.5	%	ASTM D955
Moisture Content	0.030	%	
Static Decay		sec	FTMS 101C 4046.1
Primary Additive	20	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore A, 10 sec)	76		ASTM D2240
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	2.62	MPa	ASTM D412
Tensile Elongation (Yield)	21	%	ASTM D412
Tear Strength [1]	19.4	kN/m	ASTM D624
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
-- [2]	< 1.0E+4	ohms	ASTM D257
--	< 1.0E+3	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	79.4	°C	
Drying Time	2.0	hr	
Dew Point	-17.8	°C	
Processing (Melt) Temp	182 - 210	°C	
Mold Temperature	15.6 - 65.6	°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.

NOTE	
1.	C mould
2.	ESD STM11.11

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Recommended distributors for this material

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