

RTP EMI 2862-60A

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/ESD Protection

General Information			
Filler / Reinforcement	Stainless steel fiber, 15% 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	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 - 1.0	%	ASTM D955
Moisture Content	0.030	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	15	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 10 sec)	60		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.20 mm)	2.21	MPa	ASTM D412
Tensile Elongation ³ (Break)	40	%	ASTM D412
Tear Strength ⁴	17.5	kN/m	ASTM D624
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
-- ⁵	< 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	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.Remove hopper magnets.		
NOTE		
1.	MIL-PRF-81705D, 5kV to 50 V, 12% RH	
2.	C mold, 500 mm/min	
3.	Mouth die C, 500 mm/min	
4.	C mould	
5.	ESD STM11.11	

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Recommended distributors for this material

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