RTP 4099 X 112302

Polyphthalamide

RTP Company

Message:

Stainless Steel Fiber - EMI/RFI Shielding - Electrically Conductive - Impact Modified

General Information			
Filler / Reinforcement	Stainless steel fiber		
Additive	Impact modifier		
Features	Impact modification Conductivity Electromagnetic shielding (EMI) Radio frequency shielding (RFI)		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.19	g/cm³	ASTM D792
Moisture Content	0.040	%	
Static Decay [1]		sec	FTMS 101C 4046.1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2900	MPa	ASTM D638
Tensile Strength	76.5	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
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+8	ohms	ASTM D257
--	< 1.0E+7	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+3	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	107	°C	
Drying Time	6.0	hr	
Dew Point	-31.7	°C	
Processing (Melt) Temp	313 - 329	°C	
Mold Temperature	135 - 163	°C	

Injection Pressure	68.9 - 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.

NOTE	
1.	MIL-PRF-81705D, 5kV to 50 V, 12% RH

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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