

RTP ESD C 105

Polypropylene
RTP Company

Message:
Glass Fiber - ESD Protection - Electrically Conductive

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Electrically Conductive		
	ESD Protection		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.15 to 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5170	MPa	ASTM D638
Tensile Strength	33.8	MPa	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	64	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	160	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	131	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+6	ohms	ASTM D257
--	< 1.0E+5	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+3	ohms · cm	ASTM D257
Static Decay ¹	< 2.0	sec	FTMS 101C 4046.1
Primary Additive	30	%	
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	191 to 232	°C	
Mold Temperature	32.2 to 65.6	°C	

Injection Pressure	68.9 to 103	MPa
NOTE		

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

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Recommended distributors for this material

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