

RTP ESD C 100 FR

Polypropylene
RTP Company

Message:
Flame Retardant - ESD Protection - Electrically Conductive

General Information			
Features	Electrically Conductive		
	ESD Protection		
	Flame Retardant		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.50 to 1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.90 to 1.3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1520	MPa	ASTM D638
Tensile Strength	17.2	MPa	ASTM D638
Tensile Elongation (Yield)	6.0 to 10	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	33.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	670	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+4	ohms	ASTM D257
--	< 1.0E+3	ohms	ESD STM11.11
Volume Resistivity	< 10	ohms·cm	ASTM D257
Static Decay ¹	< 0.5	sec	FTMS 101C 4046.1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, ** Values per RTP Company testing.)	V-0		UL 94
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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