

RTP 299 M X 131268 G

Polyamide 1010

RTP Company

Message:

Carbon Nanotube - ESD Protection

General Information			
Filler / Reinforcement	Carbon nano filler		
Features	Electrostatic discharge protection		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.80	%	ASTM D955
Moisture Content		%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2140	MPa	ASTM D638
Tensile Strength	58.6	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790
Flexural Strength	82.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	48	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	64.4	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0E+6 - 1.0E+10	ohms	ASTM D257
--	1.0E+5 - 1.0E+9	ohms	ESD STM11.11
Volume Resistivity	1.0E+2 - 1.0E+5	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	4.0	hr	
Dew Point	-40.0	°C	
Processing (Melt) Temp	232 - 282	°C	
Mold Temperature	48.9 - 93.3	°C	
Injection Pressure	68.9 - 103	MPa	

Injection instructions

Desiccant Type Dryer Required.

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Recommended distributors for this material

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