

RTP ESD 289

Polyamide 66

RTP Company

Message:

Carbon Fiber - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 50% filler by weight		
Features	Conductivity		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 - 0.20	%	ASTM D955
Moisture Content	0.20	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31000	MPa	ASTM D638
Tensile Strength	221	MPa	ASTM D638
Tensile Elongation (Yield)	1.2	%	ASTM D638
Flexural Modulus	27600	MPa	ASTM D790
Flexural Strength	365	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	91	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	252	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+3	ohms	ESD STM11.11
--	< 1.0E+4	ohms	ASTM D257
Volume Resistivity	< 1.0	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm, ** Values per RTP Company testing.)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	79	°C	
Drying Time	4.0	hr	
Dew Point	-18	°C	
Processing (Melt) Temp	277 - 299	°C	

Mold Temperature	66 - 107	°C
Injection Pressure	68.9 - 124	MPa
Injection instructions		

Desiccant Type Dryer Required.

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Recommended distributors for this material

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