

RTP ESD C 280 FR UV

Polyamide 66

RTP Company

Message:

Carbon Fiber - Flame Retardant - Electrically Conductive - ESD Protection - UV Stabilized

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	UV stabilizer		
Features	Conductivity		
	Electrostatic discharge protection		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10 - 0.20	%	ASTM D955
Moisture Content	0.20	%	
Static Decay		sec	FTMS 101C 4046.1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Yield)	2.2	%	ASTM D638
Flexural Modulus	11000	MPa	ASTM D790
Flexural Strength	276	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	690	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	217	°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
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	4.0	hr
Dew Point	-17.8	°C
Processing (Melt) Temp	277 - 299	°C
Mold Temperature	65.6 - 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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