RTP ESD C 280 A

Polyamide 6

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'
The data for this material has not been recently verified.
Please contact RTP Company for current information prior to specifying this grade.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Electrostatic discharge protection		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black Available colors Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.1	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength	158	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	8960	MPa	ASTM D790
Flexural Strength	241	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	218	°C	ASTM D648
1.8 MPa, not annealed	213	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257
Additional Information			

Molding Shrinkage, Linear-Flow, ASTM D955, 3.175mm: 1-3mm/mTensile Elongation, ASTM D638: 3-6%Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D257: <10E3 ohm-cmSurface Resistivity, ASTM D257: <10E6 ohm/sq

Injection	Nominal Value	Unit
Rear Temperature	232 - 288	°C
Middle Temperature	232 - 288	°C
Front Temperature	232 - 288	°C
Mold Temperature	66.0 - 93.0	°C
Injection Pressure	68.9 - 138	MPa

Recommended distributors for this material

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