

RTP ESD 1385

Polyphenylene Sulfide

RTP Company

Message:

Carbon Fiber - Electrically Conductive

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050 to 0.15	%	ASTM D955
Moisture Content	0.040	%	
Static Decay	< 0.5	sec	FTMS 101C 4046.1
Primary Additive	30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24800	MPa	ASTM D638
Tensile Strength	172	MPa	ASTM D638
Tensile Elongation (Yield)	0.50 to 1.5	%	ASTM D638
Flexural Modulus	22100	MPa	ASTM D790
Flexural Strength	234	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)	350	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	268	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+4	ohms	ASTM D257
--	< 1.0E+3	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+2	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	149	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	307 to 329	°C	

Mold Temperature	135 to 177	°C
Injection Pressure	68.9 to 103	MPa

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