

RTP 2183

Polyether Imide

RTP Company

Message:

Carbon Fiber

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.050	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Moisture Content	0.040	%	
Primary Additive	20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	16500	MPa	ASTM D638
Tensile Strength	221	MPa	ASTM D638
Tensile Elongation (Yield)	< 2.0	%	ASTM D638
Flexural Modulus	14500	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	75	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	640	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	207	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	< 1.0E+4	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	4.0	hr	
Dew Point	-28.9	°C	
Processing (Melt) Temp	354 - 399	°C	
Mold Temperature	135 - 177	°C	

Injection Pressure	82.7 - 124	MPa
Injection instructions		

Desiccant Type Dryer Required.

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Recommended distributors for this material

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