

RTP 4187

Polyetherketoneketone

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.
Carbon Fiber 40%

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 40% filler by weight		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.10	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	33800	MPa	ASTM D638
Tensile Strength	262	MPa	ASTM D638
Tensile Elongation (Yield)	1.0	%	ASTM D638
Flexural Modulus	30300	MPa	ASTM D790
Flexural Strength	386	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)	590	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	316	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+6	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information			
Dew Point: -20°FDTUL at 264 psi, ASTM D648: >600°FMoisture Content: 0.1%Volume Resistivity, ASTM D257: <1000000 ohm-cm			
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	377 - 382	°C	
Mold Temperature	149 - 232	°C	
Injection Pressure	103 - 138	MPa	

Injection instructions

Desiccant Type Dryer Required.

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Recommended distributors for this material

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