

RTP 2281

Polyetheretherketone

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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight		
Features	Conductivity		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength	186	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	269	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	37	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	288	°C	ASTM D648
1.8 MPa, not annealed	288	°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 (1.52 mm)	V-0		UL 94
Additional Information			
Tensile Elongation, ASTM D638: 2-3%Volume Resistivity, ASTM D257: 1E4-1E6 ohm-cm			

Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.10	%
Suggested Max Regrind	20	%
Rear Temperature	357 - 399	°C
Middle Temperature	357 - 399	°C
Front Temperature	357 - 399	°C
Mold Temperature	149 - 204	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345 - 0.689	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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