

# RTP 3881

Polyaryletherketone

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,10% Filler by Weight		
Features	Electrically Conductive		
	Good Chemical Resistance		
	Good Moldability		
	Good Stiffness		
	Good Thermal Stability		
	High Strength		
RoHS Compliance	Contact Manufacturer		
Appearance	Black		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength (Yield)	173	MPa	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	10300	MPa	ASTM D790
Flexural Strength (Yield)	265	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	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	2.0E+3	ohms · cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.010	%	
Suggested Max Regrind	20	%	
Rear Temperature	357 to 399	°C	
Middle Temperature	366 to 418	°C	
Front Temperature	385 to 427	°C	
Mold Temperature	149 to 218	°C	
Injection Pressure	68.9 to 124	MPa	
Back Pressure	0.172 to 0.689	MPa	
Screw Speed	60 to 90	rpm	
Clamp Tonnage	6.9 to 11	kN/cm <sup>2</sup>	

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#### Recommended distributors for this material

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