RTP 181 HI

Polypropylene Copolymer 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.

RTP 181 HI is a high impact polypropylene with carbon fiber added for electrical conductivity. This product has excellent static dissipation characteristics and is available in a range of colors. Injection molding, extrusion and blow molding grades are available.

General Information				
Filler / Reinforcement	Carbon fiber reinforced material, 10% filler by weight			
Features	Conductivity			
	Antistatic property			
	Impact resistance, good			
RoHS Compliance	Contact manufacturer			
Appearance	Black			
	Available colors			
	Natural color			
Forms	Particle			
Processing Method	Blow molding			
	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	

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Specific Gravity	0.948	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3450	MPa	ASTM D638
Tensile Strength (Yield)	22.0	MPa	ASTM D638
Tensile Elongation (Break)	7.5	%	ASTM D638
Flexural Modulus	2760	MPa	ASTM D790
Flexural Strength (Yield)	33.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	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	132	°C	ASTM D648
1.8 MPa, not annealed	104	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+5	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	НВ		UL 94
Additional Information			
Molding Shrinkage, Linear-Flow, ASTM	D955, 6.35mm: 3mm/m.		
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Suggested Max Regrind	20	%	
Rear Temperature	218 - 274	°C	
Middle Temperature	218 - 274	°C	
Front Temperature	218 - 274	°C	
Mold Temperature	32.0 - 66.0	°C	
Injection Pressure	68.9 - 103	MPa	
Back Pressure	0.345	MPa	
Screw Speed	90 - 150	rpm	
Clamp Tonnage	6.9 - 11	kN/cm²	

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Recommended distributors for this material

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