

# RTP 381 TFE 10 EM

Polycarbonate

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 reinforced material, 10% filler by weight		
Additive	PTFE lubricant (10%)		
Features	Good formability		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8270	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	145	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	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	138	°C	ASTM D648
1.8 MPa, not annealed	135	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	10	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm)	HB		UL 94
Additional Information			

The value listed as Flammability, UL 94, was tested in accordance with RTP test standards. Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in. Tensile Elongation, ASTM D-638: 2-3% Volume Resistivity, ASTM D-257: 1E1-1E3 ohm-cm

Injection	Nominal Value	Unit
Rear Temperature	288 - 343	°C
Middle Temperature	288 - 343	°C
Front Temperature	288 - 343	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	103 - 138	MPa

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#### Recommended distributors for this material

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