

# RTP 2283 TFE 15

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.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 20% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.050	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	22100	MPa	ASTM D638
Tensile Strength	221	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	18600	MPa	ASTM D790
Flexural Strength	317	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)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	288	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	V-0		UL 94
Additional Information			
Molding Shrinkage, ASTM D955, 0.25in: 1 mil/inVolume Resistivity, ASTM D257: 10E2-10E5 ohm-cm			
Injection	Nominal Value	Unit	
Rear Temperature	357 - 399	°C	

Middle Temperature	357 - 399	°C
Front Temperature	357 - 399	°C
Mold Temperature	149 - 204	°C
Injection Pressure	68.9 - 138	MPa

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Recommended distributors for this material

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