

# RTP 2285 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.  
PEEK reinforced with carbon fiber is a advanced thermoplastic composite with excellent properties. Coupled with PTFE gives the compound increased wear capabilities.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	PTFE lubricant (15%)		
Features	Conductivity		
	Good wear resistance		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.050 - 0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	31000	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	159	MPa	ASTM D638
--	234	MPa	ASTM D638
Tensile Elongation (Break)	1.3	%	ASTM D638
Flexural Modulus	24100	MPa	ASTM D790
Flexural Strength			ASTM D790
--	345	MPa	ASTM D790
Yield	255	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	96	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+3	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/in			
Injection	Nominal Value	Unit	
Drying Time	3.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	357 - 427	°C	
Middle Temperature	357 - 427	°C	
Front Temperature	357 - 427	°C	
Mold Temperature	121 - 204	°C	
Injection Pressure	82.7 - 103	MPa	

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#### Recommended distributors for this material

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