

# RTP 2286 HF

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, 35% filler by weight		
Features	High liquidity		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.030	%	ASTM D955
6.35mm, injection molding	0.10	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	33100	MPa	ASTM D638
Tensile Strength	269	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	1.4	%	ASTM D638
Flexural Modulus (Injection Molded)	28300	MPa	ASTM D790
Flexural Strength (Injection Molded)	396	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	85	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	690	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	302	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information			
The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.			
Injection	Nominal Value	Unit	

Rear Temperature	343 - 388	°C
Middle Temperature	343 - 388	°C
Front Temperature	343 - 388	°C
Mold Temperature	163 - 218	°C
Injection Pressure	83.0 - 124	MPa

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Recommended distributors for this material

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