

# RTP 281 TFE 5 HS

Polyamide 66

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 (5%) heat stabilizer		
Features	Thermal Stability Lubrication		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.30	%	ASTM D955
6.35mm, injection molding	0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	8270	MPa	ASTM D638
Tensile Strength	138	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	3.0	%	ASTM D638
Flexural Modulus (Injection Molded)	6890	MPa	ASTM D790
Flexural Strength (Injection Molded)	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	53	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, unannealed, injection molded	254	°C	ASTM D648
1.8 MPa, unannealed, injection molded	249	°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 (1.50 mm)	HB		UL 94

#### Additional Information

The value listed as Flammability, UL 94, was tested in accordance with RTP Company methods.

Injection	Nominal Value	Unit
Rear Temperature	274 - 293	°C
Middle Temperature	274 - 293	°C
Front Temperature	274 - 293	°C
Mold Temperature	66.0 - 107	°C
Injection Pressure	69.0 - 124	MPa

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#### Recommended distributors for this material

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