

RTP 1700 GB 20 Z

Polyphenylene Ether

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	Glass beads, 20% filler by weight		
Agency Ratings	FDA not rated		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow			ASTM D955
3.18mm, injection molding	0.50	%	ASTM D955
6.35mm, injection molding	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	3100	MPa	ASTM D638
Tensile Strength	55.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	3450	MPa	ASTM D790
Flexural Strength (Injection Molded)	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded)	121	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	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	232 - 282	°C
Middle Temperature	232 - 282	°C
Front Temperature	232 - 282	°C
Mold Temperature	66.0 - 93.0	°C
Injection Pressure	69.0 - 103	MPa

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Recommended distributors for this material

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