

RTP 1700

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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	48.3	MPa	ASTM D638
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	56.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	370	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			ASTM D648
0.45 MPa, not annealed	96.1	°C	ASTM D648
1.8 MPa, not annealed	87.8	°C	ASTM D648
CLTE - Flow	7.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	2.74		ASTM D150
Dissipation Factor (60 Hz)	4.3E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.59 mm, Values per RTP Company testing.)		
	V-0	UL 94
Additional Information		
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 9mil/in.		
Injection	Nominal Value	Unit
Rear Temperature	260 - 288	°C
Middle Temperature	260 - 288	°C
Front Temperature	260 - 288	°C
Mold Temperature	12.1 - 66.0	°C
Injection Pressure	96.0 - 117	MPa

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Recommended distributors for this material

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