

RTP 1400 GB 20

Polyethersulfone

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.-
The value listed as UL 94, was tested in accordance with RTP Company Testing.

General Information			
Filler / Reinforcement	Glass beads, 20% filler by weight		
Features	Good dimensional stability		
	Heat resistance, medium		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	125		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength	81.4	MPa	ASTM D638
Tensile Elongation (Break)	3.1	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	32	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	190	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating	V-0	UL 94
Additional Information		
Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 8mil/in.		
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	6.0	hr
Suggested Max Moisture	0.040	%
Suggested Max Regrind	20	%
Rear Temperature	343 - 399	°C
Middle Temperature	343 - 399	°C
Front Temperature	343 - 399	°C
Mold Temperature	93.3 - 177	°C
Injection Pressure	68.9 - 124	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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