RTP 1001 GB 20

Polybutylene Terephthalate

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.
RTP 1001 GB and RTP 1001 M 20 are specially formulated thermoplastic polyester, PBT, compounds designed to minimize warpage.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight Glass beads, 20% filler by weight
Features	High strength Bending resistance Good electrical performance Thermal stability, good
Uses	Application in Automobile Field
RoHS Compliance	Contact manufacturer
Appearance	Black Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	117		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	5100	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	53.8	MPa	ASTM D638
--	53.8	MPa	ASTM D638
Tensile Elongation (Break)	2.5	%	ASTM D638
Flexural Modulus	5030	MPa	ASTM D790
Flexural Strength			ASTM D790
--	103	MPa	ASTM D790
Yield	103	MPa	ASTM D790

Compressive Strength	49.6	MPa	ASTM D695
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	320	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow	5.2E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	2.60		ASTM D150
Dissipation Factor (1 MHz)	0.13		ASTM D150
Arc Resistance (1.59 mm)	140	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.59 mm)	HB		UL 94

Additional Information

The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 11mil/in.

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.030	%
Suggested Max Regrind	20	%
Rear Temperature	232 - 271	°C
Middle Temperature	232 - 271	°C
Front Temperature	232 - 271	°C
Mold Temperature	37.8 - 121	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.172 - 0.517	MPa
Screw Speed	60 - 90	rpm
Clamp Tonnage	6.9 - 11	kN/cm^2

Recommended distributors for this material

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