

RTP 1102 FR

Polyethylene 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.
-Preliminary Product Data per RTP Co.-

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6200	MPa	ASTM D638
Tensile Strength	93.1	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	5510	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	350	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	235	°C	ASTM D648
1.8 MPa, not annealed	218	°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 (1.59 mm, Values per RTP Comany testing.)	V-0		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 6mil/in.

Injection	Nominal Value	Unit
Suggested Max Regrind	20	%
Rear Temperature	260 - 299	°C
Middle Temperature	260 - 299	°C
Front Temperature	260 - 299	°C
Mold Temperature	93.0 - 149	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.172 - 0.517	MPa
Clamp Tonnage	6.9 - 11	kN/cm ²

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Recommended distributors for this material

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