

# RTP 1003 HI

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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
RoHS Compliance	Contact manufacturer		
Appearance	Black Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.070	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5520	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4830	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	140	J/m	ASTM D256
Unnotched Izod Impact (6.35 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	193	°C	ASTM D648
1.8 MPa, not annealed	188	°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)	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.: 4mil/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

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#### Recommended distributors for this material

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