

# RTP ESD C 1005 FR

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, 30% filler by weight		
Features	Conductivity		
	Electrostatic discharge protection		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.68	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	12400	MPa	ASTM D638
Tensile Strength	69.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	1.5	%	ASTM D638
Flexural Modulus (Injection Molded)	9650	MPa	ASTM D790
Flexural Strength (Injection Molded)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	400	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Additional Information			
The value listed as Flammibility, UL 94, was tested in accordance with RTP Company methods.			

Injection	Nominal Value	Unit
Rear Temperature	232 - 257	°C
Middle Temperature	232 - 257	°C
Front Temperature	232 - 257	°C
Mold Temperature	79.0 - 107	°C
Injection Pressure	69.0 - 103	MPa

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#### Recommended distributors for this material

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