

# PermaStat® 4700

Polytrimethylene 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			
Additive	Antistatic property		
Features	Electrostatic discharge protection		
	Antistatic property		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm, Injection Molded)	0.90 - 1.3	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1930	MPa	ASTM D638
Tensile Strength	44.0	MPa	ASTM D638
Tensile Elongation (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus (Injection Molded)	1930	MPa	ASTM D790
Flexural Strength (Injection Molded)	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm, Injection Molded)	43	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1300	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+10	ohms · cm	ASTM D257
Additional Information			
Static Decay MIL-PRF-81705D, FTMS-4046.1: <2 sec			
Injection	Nominal Value	Unit	
Rear Temperature	221 - 241	°C	
Middle Temperature	221 - 241	°C	

Front Temperature	221 - 241	°C
Mold Temperature	88.0 - 121	°C
Injection Pressure	69.0 - 103	MPa

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Recommended distributors for this material

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