

# PermaStat® 200F

Polyamide 12

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	Antistatic property		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0 - 1.5	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	482	MPa	ASTM D638
Tensile Strength (Yield)	21.0	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	414	MPa	ASTM D790
Flexural Strength (Yield)	17.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	530	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1100	J/m	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+10	ohms	ASTM D257
Volume Resistivity	1.0E+9	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Molding Shrinkage, ASTM D 955, 3.175mm: 10-15mm/mVolume Resistivity, ASTM D 257: 1000000000 - 10000000000 ohm-cmSurface Resistivity, ASTM D 257: 10000000000 - 100000000000 ohm/sqStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsThe value listed as Flame Rating - UL was tested in accordance with RTP Company testing.			

Injection	Nominal Value	Unit
Rear Temperature	221 - 254	°C
Middle Temperature	221 - 254	°C
Front Temperature	221 - 254	°C
Mold Temperature	38.0 - 66.0	°C
Injection Pressure	68.9 - 103	MPa

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#### Recommended distributors for this material

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