

PermaStat® 105

Polypropylene
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		
Additive	Antistatic property		
Features	Antistatic property		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 - 0.50	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength	52.0	MPa	ASTM D638
Tensile Elongation (Break)	4.5	%	ASTM D638
Flexural Modulus	4130	MPa	ASTM D790
Flexural Strength	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	370	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
Additional Information			
Tensile Elongation, ASTM D 638: 3-6%Volume 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 seconds			
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	

Suggested Max Regrind	20	%
Rear Temperature	182 - 204	°C
Middle Temperature	182 - 204	°C
Front Temperature	182 - 204	°C
Mold Temperature	32.2 - 65.6	°C
Injection Pressure	68.9 - 138	MPa

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Recommended distributors for this material

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