

# PermaStat® 604

Acrylonitrile Butadiene Styrene

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.  
PermaStat® 600 materials are ABS with a permanent anti-static additive. The products are non-migrating, independent of humidity and colorable. The products meet static decay requirements of MIL B-80705C.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Additive	Antistatic property		
Features	Conductivity		
	Antistatic property		
	Good coloring		
	Mobility Low to None		
Uses	Conveyor		
	Calculator		
	Printing press		
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	1.23	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5100	MPa	ASTM D638
Tensile Strength (Yield)	54.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	4130	MPa	ASTM D790
Flexural Strength (Yield)	74.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256

Unnotched Izod Impact (3.18 mm)	240	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	93.3	°C	ASTM D648
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: 1-3mm/mTensile Elongation, ASTM D 638: 1-3%Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D 257: 10000000000 - 100000000000 ohm-cmSurface Resistivity, ASTM D 257: 100000000000 - 1000000000000 ohm/sq			
Injection	Nominal Value	Unit	
Rear Temperature	216 - 288	°C	
Middle Temperature	216 - 288	°C	
Front Temperature	216 - 288	°C	
Mold Temperature	65.6 - 93.3	°C	
Injection Pressure	68.9 - 103	MPa	

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#### Recommended distributors for this material

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