

PermaStat® 603 FR

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 FR Series materials are flame retardant ABS with a permanent anti-static additive. The products are non-migrating, independent of humidity and non-sloughing. The products meet static decay requirements of MIL B-80705C.

General Information			
Additive	Antistatic property (20)		
	Flame retardancy		
Features	Antistatic property		
	Flame retardancy		
Uses	Conveyor		
	Electrical components		
	Calculator		
	Printing press		
	Printing machine parts		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
UL File Number	E84658		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.30	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4480	MPa	ASTM D638
Tensile Strength (Yield)	48.0	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	4340	MPa	ASTM D790
Flexural Strength (Yield)	72.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	48	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)	93.0	°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 (1.52 mm, ALL, Values per RTP Company testing.)	V-0		UL 94

Additional Information

Molding Shrinkage, ASTM D 955, 3.175mm: 1-3mm/m Tensile Elongation, ASTM D 638: 1-3% Static Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds
Volume Resistivity, ASTM D 257: 10000000000 - 100000000000 ohm-cm Surface Resistivity, ASTM D 257: 100000000000 - 1000000000000 ohm/sq

Injection	Nominal Value	Unit
Rear Temperature	216 - 249	°C
Middle Temperature	216 - 249	°C
Front Temperature	216 - 249	°C
Mold Temperature	66.0 - 93.0	°C
Injection Pressure	68.9 - 103	MPa

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Recommended distributors for this material

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