PermaStat® 602

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, 15% filler by weight		
Additive	Antistatic property (10)		
Features	Antistatic property		
Uses	Conveyor Calculator Printing press Printing machine parts		
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	1.16	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.40	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4130	MPa	ASTM D638
Tensile Strength (Yield)	43.0	MPa	ASTM D638
Tensile Elongation (Break)	2.6	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength (Yield)	65.0	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)	210	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	88.0	°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 (1.59 mm, Values per RTP Company testing.)	HB		UL 94
Additional Information			
Molding Shrinkage, ASTM D 955, 3.175mm: 2-4mm/mStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D 257: 1000000000 - 10000000000 ohm-cmSurface Resistivity, ASTM D 257: 10000000000 - 100000000000 ohm/sq			
Injection	**Nominal Value**	**Unit**	
Rear Temperature	216 - 288	°C	
Middle Temperature	216 - 288	°C	
Front Temperature	216 - 288	°C	
Mold Temperature	66.0 - 93.0	°C	
Injection Pressure	68.9 - 103	MPa	

Recommended distributors for this material

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