RTP 2581C HEC

Polycarbonate + ABS

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.
RTP 2580 C HEC Series material are polycarbonates/ABS alloys with nickel-coated carbon fiber added for electrical conductivity and EMI/RFI shielding. These materials are available in a range of colors.

General Information			
Filler / Reinforcement	Nickel-plated carbon fiber, 10% filler by weight		
Features	Conductivity Electromagnetic shielding (EMI) Antistatic property Radio frequency shielding (RFI)		
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	1.22	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6890	MPa	ASTM D638
Tensile Strength	82.7	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	124	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)	320	J/m	ASTM D4812
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	121	°C	ASTM D648
Electrical	**Nominal Value**	**Unit**	**Test Method**

Surface Resistivity	1.0E+5	ohms	ASTM D257
Volume Resistivity	1.0E+3	ohms·cm	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.59 mm, RTP Tested)	HB		UL 94

Additional Information
Shielding Effectiveness: 20+ dBStatic Decay, Mil B-81705C, FTMS-4046.1: <2.0 secondsThe Shielding Effectiveness testing was performed on edge-gated 6"x6"x0.090-0.120" panels, using NIST test cell per NBS Technical Note 1095.

Injection	Nominal Value	Unit
Drying Temperature	98.9	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Suggested Max Regrind	20	%
Rear Temperature	232 - 288	°C
Middle Temperature	232 - 288	°C
Front Temperature	232 - 288	°C
Mold Temperature	71.1 - 98.9	°C
Injection Pressure	68.9 - 103	MPa
Back Pressure	0.345	MPa
Clamp Tonnage	6.9 - 11	kN/cm^2

Recommended distributors for this material

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