RTP 2583C 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 2583 HEC Series materials are polycarbonate/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, 20% 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	1.29	g/cm³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.15	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11700	MPa	ASTM D638
Tensile Strength	110	MPa	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	9650	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (3.18 mm)	69	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	270	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+3	ohms	ASTM D257
Volume Resistivity	1.0	ohms·cm	ASTM D257

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

Additional Information
Shielding Effectiveness: 30+ 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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