RTP 2583C HEC FR

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 C HEC FR Series materials are polycarbonate/ABS alloys with nickel-coated carbon fiber added for electrical conductivity and EMI/RFI shielding. These materials meet the flammability requirements of UL94 V-0 and are available in a range of colors.

General Information				
Filler / Reinforcement	Nickel plated carbon fiber, 20% filler by weight			
Additive	Flame retardancy			
Features	Conductivity			
	Electromagnetic shielding (EMI)			
	Antistatic property			
	Radio frequency shielding (RFI)			
	Flame retardancy			
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	1.41	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	12400	МРа	ASTM D638	
Tensile Strength	117	MPa	ASTM D638	
Tensile Elongation (Break)	1.5	%	ASTM D638	
Flexural Modulus	10300	MPa	ASTM D790	
Flexural Strength	165	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)	270	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	

Deflection Temperature Under Load (1.8 MPa, Unannealed)	113	°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)	V-0		UL 94
Additional Information			

Additional Information

Static Decay, Mil B-81705C, FTMS-4046.1: <2.0 secondsShielding Effectiveness: 30+ dBThe 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/cm²

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

