

RTP ESD A 380 FR

Polycarbonate

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.
ESD 380 FR Series is a carbon fiber reinforced polycarbonate. It is characterized with excellent physical properties, toughness and the ability to be fabricated to close dimensional. ESD A 380 FR is static dissipative, ESD C 380 FR is conductive.

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Additive	Flame retardancy		
Features	Electrostatic discharge protection		
	Antistatic property		
	Good toughness		
	Flame retardancy		
Agency Ratings	MIL B-81705B		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7580	MPa	ASTM D638
Tensile Strength	96.5	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	159	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)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, not annealed	143	°C	ASTM D648
1.8 MPa, not annealed	138	°C	ASTM D648
CLTE - Flow	3.2E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+6	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)	V-0		UL 94

Additional Information

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 2mil/in.Tensile Elongation, ASTM D638: 2-4%Volume Resistivity, ASTM D257: 10E3-10E9 ohm-cmSurface Resistivity, ASTM D257: 10E6-10E12 ohm/sqNFPA Code 56A, static decay rate, 0.5 sec: passesStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

Injection	Nominal Value	Unit
Rear Temperature	288 - 343	°C
Middle Temperature	288 - 343	°C
Front Temperature	288 - 343	°C
Mold Temperature	65.6 - 121	°C
Injection Pressure	68.9 - 103	MPa

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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

