

RTP ESD A 2580

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.
ESD 2580 Series is a polycarbonate/ABS alloy with carbon fibers added for electrical conductivity. These materials have excellent static dissipation characteristics, are non-sloughing and are available in a range of colors. ESD A 2580 is static dissipat

General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Electrostatic discharge protection		
	Antistatic property		
	No shedding		
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	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.30	%	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	103	MPa	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	152	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	129	°C	ASTM D648
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)	HB		UL 94

Additional Information

Volume Resistivity, ASTM D257: 10E3 -10E9 ohm-cmSurface Resistivity, ASTM D257: 10E6 -10E12 ohm/sqStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 seconds

Injection	Nominal Value	Unit
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

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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

