

RTP ESD C 400 HI

High Impact Polystyrene

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.
-Preliminary Product Data per RTP Co.-
ESD 400 HI Series is a modified high impact polystyrene for ESD protection application. ESD A 400 HI is static dissipative, ESD C 400 HI is conductive.

General Information			
Features	Conductivity		
	Antistatic property		
	Impact resistance, high		
Agency Ratings	MIL B-81705C		
RoHS Compliance	Contact manufacturer		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength	18.0	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	34.0	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)	430	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	96.1	°C	ASTM D648
1.8 MPa, not annealed	79.4	°C	ASTM D648
CLTE - Flow	6.5E-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, Values per RTP Company testing.)	HB		UL 94

Additional Information

Tensile Elongation, ASTM D638: 4-8%Molding Shrinkage, Linear-Flow, ASTM D955, 3.175mm: 4-6mm/mStatic Decay, FTMS-4046.1, Mil B-81705C: <2.0 secondsVolume Resistivity, ASTM D257: <10E3 ohm-cmSurface Resistivity, ASTM D257: <10E6 ohm/sq

Injection	Nominal Value	Unit
Rear Temperature	204 - 288	°C
Middle Temperature	204 - 288	°C
Front Temperature	204 - 288	°C
Mold Temperature	38.0 - 71.0	°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

