RTP ESD A 180

Polypropylene Copolymer

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 180 Series is a polypropylene high impact with carbon fibers added for electrical conductivity. This product has excellent static dissipation characteristics, is non-sloughing and is available in a range of colors. ESD A 180 is static dissipative, E

General Information					
Filler / Reinforcement	Carbon fiber reinforced material				
Features	Electrostatic discharge protection				
	Antistatic property				
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	0.938	g/cm³	ASTM D792		
Molding Shrinkage - Flow (3.18 mm)	0.30 - 0.40	%	ASTM D955		
Water Absorption (23°C, 24 hr)	0.010	%	ASTM D570		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus	4270	MPa	ASTM D638		
Tensile Strength	19.3	MPa	ASTM D638		
Tensile Elongation (Break)	10	%	ASTM D638		
Flexural Modulus	3100	MPa	ASTM D790		
Flexural Strength	33.1	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (3.18 mm)	210	J/m	ASTM D256		
Unnotched Izod Impact (3.18 mm)	590	J/m	ASTM D4812		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load			ASTM D648		
0.45 MPa, not annealed	132	°C	ASTM D648		
1.8 MPa, not annealed	104	°C	ASTM D648		
CLTE - Flow	4.3E-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)	НВ		UL 94
Additional Information			
Tensile Elongation, ASTM D638: 10+%Vol Decay, FTMS-4046.1, Mil B-81705C: <2.0		0E3 -10E9 ohm-cmSurface Resistivity,	ASTM D257: 10E6 -10E12 ohm/sqStatic
Injection	Nominal Value	Unit	
Poor Tomporaturo	219 274	°C	

Rear Temperature	218 - 274	°C
Middle Temperature	218 - 274	°C
Front Temperature	218 - 274	°C
Mold Temperature	32.2 - 46.1	°C
Injection Pressure	68.9 - 103	MPa

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