

RTP 799 A X 104857

Low Density Polyethylene

RTP Company

Message:

Carbon Fiber - ESD Protection

General Information			
Filler / Reinforcement	Carbon Fiber		
Features	ESD Protection		
RoHS Compliance	Contact Manufacturer		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.960	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	689	MPa	ASTM D638
Tensile Strength	12.4	MPa	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	758	MPa	ASTM D790
Flexural Strength	13.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	270	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	No Break		ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+8	ohms	ASTM D257
Volume Resistivity	< 1.0E+4	ohms·cm	ASTM D257
Static Decay ¹	< 2.0	sec	FTMS 101C 4046.1
Injection	Nominal Value	Unit	
Drying Temperature	79.4	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	193 to 216	°C	
Mold Temperature	21.1 to 65.6	°C	
Injection Pressure	68.9 to 103	MPa	
NOTE			

1.

MIL-PRF-81705D, 5kV to 50 V, 12% RH

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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

