

RTP ESD 302 EM FR

Polycarbonate
RTP Company

Message:
Glass Fiber - Flame Retardant - ESD Protection - Static Dissipative - Easy Molding

General Information			
UL YellowCard	E84658-251426		
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Electrostatic discharge protection		
	Static conduction		
	Good formability		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.39	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 - 0.40	%	ASTM D955
Moisture Content	0.020	%	
Static Decay ¹		sec	FTMS 101C 4046.1
Primary Additive	15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5860	MPa	ASTM D638
Tensile Strength	75.8	MPa	ASTM D638
Tensile Elongation (Yield)	3.0 - 5.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.20 mm)	530	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	135	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	< 1.0E+10	ohms	ASTM D257
--	< 1.0E+9	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+5	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	V-0	UL 94
Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	4.0	hr
Dew Point	-28.9	°C
Processing (Melt) Temp	288 - 316	°C
Mold Temperature	82.2 - 121	°C
Injection Pressure	68.9 - 103	MPa
Injection instructions		
Desiccant Type Dryer Required.		
NOTE		

1.

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

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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



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