

RTP ESD 301 EM FR A

Polycarbonate
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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
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	1.35	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 - 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength	55.2	MPa	ASTM D638
Tensile Elongation (Yield)	5.0 - 7.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	53	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	800	J/m	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	132	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
-- ¹	< 1.0E+10	ohms	ASTM D257
--	< 1.0E+9	ohms	ESD STM11.11
Volume Resistivity	< 1.0E+5	ohms · cm	ASTM D257
Static Decay			FTMS 101C 4046.1
Flammability	Nominal Value	Unit	Test Method
Flame Rating ² (1.50 mm)	V-0		ASTM D3801

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	121	°C
Drying Time - Desiccant Dryer	4.0	hr
Dew Point - Desiccant Dryer	-28.9	°C
Suggested Max Moisture	0.020	%
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. ESD STM11.11
2. Values per RTP Company testing.

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Recommended distributors for this material

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