

RTP Compounds EMI 2561

Acrylonitrile Butadiene Styrene + PC

RTP Company

General	
Filler / Reinforcement	<ul style="list-style-type: none"> Stainless Steel Fiber, 10% Filler by Weight
Features	<ul style="list-style-type: none"> Electrically Conductive Electromagnetic Shielding (EMI) ESD Protection Radio Frequency Shielding (RFI)
RoHS Compliance	<ul style="list-style-type: none"> Contact Manufacturer
Processing Method	<ul style="list-style-type: none"> Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.25 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2760 MPa	ASTM D638
Tensile Strength	58.6 MPa	ASTM D638
Tensile Elongation (Yield)	5.0 to 8.0 %	ASTM D638
Flexural Modulus	3100 MPa	ASTM D790
Flexural Strength	103 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)	530 J/m	ASTM D4812

Electrical	Nominal Value Unit	Test Method
Surface Resistivity		
-- ²	< 1.0E+4 ohm	ASTM D257
--	< 1.0E+3 ohm	ESD STM11.11
Volume Resistivity	< 10 ohm-cm	ASTM D257
Static Decay ³	< 2.00	FTMS 101C 4046.1

Injection	Nominal Value Unit
Drying Temperature - Desiccant Dryer	93.3 °C
Drying Time - Desiccant Dryer	4.0 hr
Dew Point - Desiccant Dryer	-28.9 °C
Suggested Max Moisture	0.020 %
Processing (Melt) Temp	243 to 274 °C
Mold Temperature	51.7 to 93.3 °C
Injection Pressure	68.9 to 103 MPa

Injection Notes
 Use a reverse barrel profile. Remove hopper magnets. Allow 4 - 5 shots to properly disperse the conductive fibers. The surface finish should have a silver streaking appearance, not clumps.
 Desiccant Type Dryer Required.
 Remove hopper magnets.

Notes

¹ Typical properties: these are not to be construed as specifications.

² ESD STM11.11

³ MIL-PRF-81705D, 5kV to 50 V, 12% Rh