



**Product Data Sheet &  
General Processing Conditions**

**EMI 331 G FR  
Polycarbonate (PC)  
10% Glass Fiber  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection  
Flame Retardant**



**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	15 %	15 %	
Specific Gravity	1.60	1.60	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0025 - 0.0035 in/in	0.25 - 0.35 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.9 ft-lbs/in	48 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	13000 psi	90 MPa	D 638
Tensile Elongation	2.0 - 3.0 %	2.0 - 3.0 %	D 638
Tensile Modulus	0.85 x 10 <sup>6</sup> psi	5861 MPa	D 638
Flexural Strength	21000 psi	145 MPa	D 790
Flexural Modulus	0.85 x 10 <sup>6</sup> psi	5861 MPa	D 790

**ELECTRICAL**

Volume Resistivity	< 1 ohm.cm	< 1 ohm.cm	D 257
Surface Resistivity	< 1E4 ohm/sq	< 1E4 ohm/sq	D 257
Surface Resistance	< 1E3 ohm	< 1E3 ohm	ESD STM11.11
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1

**THERMAL**

Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
--------------------------------------	---------------	--------------	------

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	530 - 580 °F	277 - 304 °C

Mold Temperature	160 - 250 °F	71 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

#### PROCESSING 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.

Remove hopper magnets.

Desiccant Type Dryer Required.