



**Product Data Sheet &  
General Processing Conditions**

**EMI 330 E FR  
Polycarbonate (PC)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI Shielding  
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	10 %	10 %	
Specific Gravity	1.40	1.40	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0070 in/in	0.40 - 0.70 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	14.0 ft-lbs/in	747 J/m	D 4812
Tensile Strength	9600 psi	66 MPa	D 638
Tensile Elongation	4.0 - 6.0 %	4.0 - 6.0 %	D 638
Tensile Modulus	0.45 x 10 <sup>6</sup> psi	3103 MPa	D 638
Flexural Strength	16500 psi	114 MPa	D 790
Flexural Modulus	0.45 x 10 <sup>6</sup> psi	3103 MPa	D 790

**ELECTRICAL**

Volume Resistivity	< 1E1 ohm.cm	< 1E1 ohm.cm	D 257
Surface Resistivity	< 1E6 ohm/sq	< 1E6 ohm/sq	D 257
Surface Resistance	< 1E5 ohm	< 1E5 ohm	ESD STM11.11
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 0.50 s	< 0.50 s	FTMS101C 4046.1

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	269 °F	132 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94

**EMI**

Shielding Effectiveness @ 2 mm thickness	37 dB @ 300 MHz	37 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	37 dB @ 500 MHz	37 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	38 dB @ 700 MHz	38 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	40 dB @ 1000 MHz	40 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	44 dB @ 1300 MHz	44 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	46 dB @ 1500 MHz	46 dB @ 1500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	46 dB @ 300 MHz	46 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	45 dB @ 500 MHz	45 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	48 dB @ 700 MHz	48 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	53 dB @ 1000 MHz	53 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	53 dB @ 1300 MHz	53 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	55 dB @ 1500 MHz	55 dB @ 1500 MHz	D 4935

**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

	English	SI Metric
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

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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.