




**Product Data Sheet &  
General Processing Conditions**

**EMI 2561 FR  
Polycarbonate/ABS Alloy (PC/ABS)  
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	10 %	10 %	
Specific Gravity	1.39	1.39	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0040 - 0.0060 in/in	0.40 - 0.60 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	6.0 ft-lbs/in	320 J/m	D 4812
Tensile Strength	9000 psi	62 MPa	D 638
Tensile Elongation	3.0 - 5.0 %	3.0 - 5.0 %	D 638
Tensile Modulus	0.40 x 10 <sup>6</sup> psi	2758 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.45 x 10 <sup>6</sup> psi	3103 MPa	D 790

**ELECTRICAL**

Volume Resistivity	< 100 ohm.cm	< 100 ohm.cm	D 257
Surface Resistivity	< 1E5 ohm/sq	< 1E5 ohm/sq	D 257
Surface Resistance	< 1E4 ohm	< 1E4 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)	259 °F	126 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94

**EMI**

Shielding Effectiveness @ 2 mm thickness	60 dB @ 300 MHz	60 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	60 dB @ 500 MHz	60 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	61 dB @ 700 MHz	61 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	62 dB @ 1000 MHz	62 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	63 dB @ 1300 MHz	63 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	65 dB @ 1500 MHz	65 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**

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	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	470 - 525 °F	243 - 274 °C
Mold Temperature	125 - 200 °F	52 - 93 °C
Drying	4 hrs @ 200 °F	4 hrs @ 93 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

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**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.