



**Product Data Sheet &
General Processing Conditions**

**EMI 362
Polycarbonate (PC)
Stainless Steel Fiber
Electrically Conductive
EMI/RFI Shielding**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.35	1.35	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0060 in/in	0.50 - 0.60 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.3 ft-lbs/in	69 J/m	D 256
unnotched 1/8 in (3.2 mm) section	20.0 ft-lbs/in	1068 J/m	D 4812
Tensile Strength	9500 psi	66 MPa	D 638
Tensile Elongation	5.0 - 8.0 %	5.0 - 8.0 %	D 638
Tensile Modulus	0.41 x 10 ⁶ psi	2827 MPa	D 638
Flexural Strength	15500 psi	107 MPa	D 790
Flexural Modulus	0.41 x 10 ⁶ psi	2827 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

EMI

Shielding Effectiveness @ 2 mm thickness	65 dB @ 300 MHz	65 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	66 dB @ 500 MHz	66 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	69 dB @ 700 MHz	69 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	73 dB @ 1000 MHz	73 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	76 dB @ 1300 MHz	76 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	78 dB @ 1500 MHz	78 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.

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