



**Product Data Sheet &
General Processing Conditions**

**EMI 662
Acrylonitrile Butadiene Styrene
(ABS)
Stainless Steel Fiber
Electrically Conductive
EMI/RFI/ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.17	1.17	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	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	3.0 ft-lbs/in	160 J/m	D 4812
Tensile Strength	5000 psi	34 MPa	D 638
Tensile Elongation	2.0 - 4.0 %	2.0 - 4.0 %	D 638
Tensile Modulus	0.35 x 10 ⁶ psi	2413 MPa	D 638
Flexural Strength	9000 psi	62 MPa	D 790
Flexural Modulus	0.35 x 10 ⁶ psi	2413 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	78 dB @ 300 MHz	78 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	84 dB @ 500 MHz	84 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	90 dB @ 700 MHz	90 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	94 dB @ 1000 MHz	94 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	100 dB @ 1300 MHz	100 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	102 dB @ 1500 MHz	102 dB @ 1500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	84 dB @ 300 MHz	84 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	91 dB @ 500 MHz	91 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	97 dB @ 700 MHz	97 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	100 dB @ 1000 MHz	100 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	105 dB @ 1300 MHz	105 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	107 dB @ 1500 MHz	107 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		204 - 246 °C
Mold Temperature	150 - 180 °F	66 - 82 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.10 %	0.10 %
Dew Point	0 °F	-18 °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.
Desiccant Type Dryer Required.