



**Product Data Sheet &
General Processing Conditions**

**EMI 263
Nylon 6/6 (PA)
Stainless Steel Fiber
Electrically Conductive
EMI/RFI Shielding**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	20 %	20 %	
Specific Gravity	1.36	1.36	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0120 in/in	0.60 - 1.20 %	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	12.0 ft-lbs/in	641 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	2.0 - 6.0 %	2.0 - 6.0 %	D 638
Tensile Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 638
Flexural Strength	20000 psi	138 MPa	D 790
Flexural Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 790

ELECTRICAL

Volume Resistivity	< 0 ohm.cm	< 0 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	< 0.50 s	< 0.50 s	FTMS101C 4046.1

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	175 °F	79 °C	D 648
Thermal Conductivity Through-plane	2.70 (BTU.in)/(hr.ft ² .°F)	0.39 W/(m.K)	E 1530

EMI

Shielding Effectiveness @ 2 mm thickness	89 dB @ 300 MHz	89 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	88 dB @ 500 MHz	88 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	92 dB @ 700 MHz	92 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	97 dB @ 1300 MHz	97 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	98 dB @ 1500 MHz	98 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	485 - 560 °F	252 - 293 °C

Mold Temperature
Drying
Moisture Content

175 - 210 °F
4 hrs @ 175 °F
0.20 %

79 - 99 °C
4 hrs @ 79 °C
0.20 %

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.