Product Data Sheet &
General Processing Conditions

EMI 1061
Polybutylene Terephthalate (PBT)
Stainless Steel Fiber
EMI/RFI Shielding
Electrically Conductive

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.42	1.42	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0120 - 0.0160 in/in	1.20 - 1.60 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	11.0 ft-lbs/in	587 J/m	D 4812
Tensile Strength	8200 psi	57 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.45 x 10^6 psi	3103 MPa	D 638
Flexural Strength	13600 psi	94 MPa	D 790
Flexural Modulus	0.45 x 10^6 psi	3103 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
THERMAL			
Deflection Temperature			
@ 264 psi (1820 kPa)	125 °F	52 °C	D 648
EMI			
Shielding Effectiveness @ 2 mm thickness	49 dB @ 300 MHz	49 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	49 dB @ 500 MHz	49 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	49 dB @ 700 MHz	49 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	50 dB @ 1000 MHz	50 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	50 dB @ 1300 MHz	50 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	51 dB @ 1500 MHz	51 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	380 - 430 °F	193 - 221 °C
Mold Temperature	145 - 180 °F	63 - 82 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C

Moisture Content	[illegible] %	0.03 %
Dew Point	-20 °F	-29 °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.
Remove hopper magnets.
Desiccant Type Dryer Required.