



**Product Data Sheet &
General Processing Conditions**

EMI 2562 FR
Polycarbonate/ABS Alloy (PC/ABS)
Flame Retardant
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	1.40	1.40	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	6.0 ft-lbs/in	320 J/m	D 4812
Tensile Strength	9200 psi	63 MPa	D 638
Tensile Elongation	2.0 - 4.0 %	2.0 - 4.0 %	D 638
Tensile Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 638
Flexural Strength	17500 psi	121 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 790

ELECTRICAL

Volume Resistivity	< 1E1 ohm.cm	< 1E1 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	< 0.50 s	< 0.50 s	FTMS101C 4046.1

THERMAL

Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
Flammability**	5VA @ 1/8 in	5VA @ 3.0 mm	D 5048

EMI

Shielding Effectiveness @ 2 mm thickness	68 dB @ 300 MHz	68 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	72 dB @ 500 MHz	72 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	76 dB @ 700 MHz	76 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	80 dB @ 1000 MHz	80 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	85 dB @ 1300 MHz	85 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 2 mm thickness	88 dB @ 1500 MHz	88 dB @ 1500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	92 dB @ 300 MHz	92 dB @ 300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	98 dB @ 500 MHz	98 dB @ 500 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	103 dB @ 700 MHz	103 dB @ 700 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	106 dB @ 1000 MHz	106 dB @ 1000 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	106 dB @ 1300 MHz	106 dB @ 1300 MHz	D 4935
Shielding Effectiveness @ 3 mm thickness	105 dB @ 1500 MHz	105 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.

(+) 18816996168

Poncioplastics.com

* This rating is not intended to reflect hazards of the material under normal fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	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

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.

Use a reverse barrel profile. To maximize fiber length, the following injection barrel, screw, and tip designs should be followed. L/D ratio 16/1 - 22/1, Compression ratio 2:1, Flight depth 0.200 in (5 mm) minimum, in feed section, Screw diameter 0.65 - 0.80 in (16.5 - 20 mm) minimum, Compression section length 12 - 13 diameters, Check ring valve assembly - free flow type no restrictions, Nozzle orifice 0.250 in (6 mm) diameter. Feed throat from hopper to machine must have sufficient opening to prevent bridging of long pellet composition.

Remove hopper magnets.

Desiccant Type Dryer Required.