



**Product Data Sheet &  
General Processing Conditions**

**EMI 1060.75  
Polybutylene Terephthalate (PBT)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| PERMANENCE                                   | English               | SI Metric     | ASTM TEST |
|----------------------------------------------|-----------------------|---------------|-----------|
| Primary Additive                             | 8 %                   | 8 %           |           |
| Specific Gravity                             | 1.39                  | 1.39          | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0120 - 0.0160 in/in | 1.20 - 1.60 % | D 955     |

**MECHANICAL**

|                                                          |                            |          |        |
|----------------------------------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod<br>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                        | 15.0 ft-lbs/in             | 801 J/m  | D 4812 |
| Tensile Strength                                         | 8000 psi                   | 55 MPa   | D 638  |
| Tensile Elongation                                       | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus                                          | 0.40 x 10 <sup>6</sup> psi | 2758 MPa | D 638  |
| Flexural Strength                                        | 13000 psi                  | 90 MPa   | D 790  |
| Flexural Modulus                                         | 0.40 x 10 <sup>6</sup> psi | 2758 MPa | D 790  |

**ELECTRICAL**

|                                                     |              |              |                    |
|-----------------------------------------------------|--------------|--------------|--------------------|
| Volume Resistivity                                  | < 10 ohm.cm  | < 10 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<br>MIL-PRF-81705D, 5kV to 50 V, 12% RH | < 2.00 s     | < 2.00 s     | FTMS101C<br>4046.1 |

**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   | 0.03 %            | 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.  
Desiccant Type Dryer Required.