



**Product Data Sheet &  
General Processing Conditions**

**EMI 260.6  
Nylon 6/6 (PA)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Primary Additive                             | 6 %                   | 6 %              |                  |
| Specific Gravity                             | 1.19                  | 1.19             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0120 - 0.0180 in/in | 1.20 - 1.80 %    | D 955            |

**MECHANICAL**

|  |                            |              |        |
|--|----------------------------|--------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 0.8 ft-lbs/in              | 43 J/m       | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 15.0 ft-lbs/in             | 801 J/m      | D 4812 |
| Tensile Strength   | 10000 psi                  | 69 MPa       | D 638  |
| Tensile Elongation                                       | 8.0 - 12.0 %               | 8.0 - 12.0 % | D 638  |
| Tensile Modulus  | 0.50 x 10 <sup>6</sup> psi | 3448 MPa     | D 638  |
| Flexural Strength  | 16000 psi                  | 110 MPa      | D 790  |
| Flexural Modulus   | 0.45 x 10 <sup>6</sup> psi | 3103 MPa     | D 790  |

**ELECTRICAL**

|   |              |              |                    |
|---|--------------|--------------|--------------------|
| Volume Resistivity                                  | < 1E2 ohm.cm | < 1E2 ohm.cm | D 257              |
| Surface Resistivity                                 | < 1E6 ohm/sq | < 1E6 ohm/sq | D 257              |
| Surface Resistance                                  | < 1E5 ohm    | < 1E5 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**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 485 - 560 °F      | 252 - 293 °C     |
| Mold Temperature   | 175 - 210 °F      | 79 - 99 °C       |
| Drying             | 4 hrs @ 175 °F    | 4 hrs @ 79 °C    |
| Moisture Content   | 0.20 %            | 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.