

(+) 18816996168

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**Product Data Sheet &  
General Processing Conditions**

**EMI 660.75  
Acrylonitrile Butadiene Styrene  
(ABS)  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection**

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

| PERMANENCE                                   | English               | SI Metric     | ASTM<br>TEST |
|----------------------------------------------|-----------------------|---------------|--------------|
| Primary Additive                             | 8 %                   | 8 %           |              |
| Specific Gravity                             | 1.12                  | 1.12          | D 792        |
| Molding Shrinkage<br>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   | 1.4 ft-lbs/in              | 75 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section | 5.0 ft-lbs/in              | 267 J/m     | D 4812 |
| Tensile Strength                  | 5500 psi                   | 38 MPa      | D 638  |
| Tensile Elongation                | 4.0 - 8.0 %                | 4.0 - 8.0 % | D 638  |
| Tensile Modulus                   | 0.34 x 10 <sup>6</sup> psi | 2344 MPa    | D 638  |
| Flexural Strength                 | 10000 psi                  | 69 MPa      | D 790  |
| Flexural Modulus                  | 0.35 x 10 <sup>6</sup> psi | 2413 MPa    | D 790  |

**ELECTRICAL**

|                                     |              |              |                    |
|-------------------------------------|--------------|--------------|--------------------|
| Volume Resistivity                  | < 100 ohm.cm | < 100 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                        |              |              |                    |
| 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   | 400 - 475 °F      | 204 - 246 °C  |
| Mold Temperature   | 150 - 180 °F      | 66 - 82 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |
| Moisture Content   | 0.10 %            | 0.10 %        |
| Dew Point          | 0 °F              | -18 °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.