

(+) 18816996168

Ponciplastics.com



**Product Data Sheet &  
General Processing Conditions**

**EMI 660.6  
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                             | 6 %                   | 6 %           |              |
| Specific Gravity                             | 1.10                  | 1.10          | 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<br>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                        | 6.0 ft-lbs/in              | 320 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  | < 5.0 ohm.cm | < 5.0 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        | < 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.