



**Product Data Sheet &  
General Processing Conditions**

**ESD C 703  
High Density Polyethylene (HDPE)  
Glass Fiber  
ESD Protection  
Electrically Conductive**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM<br/>TEST</b> |
|----------------------------------------------|-----------------------|------------------|----------------------|
| Specific Gravity                             | 1.18                  | 1.18             | D 792                |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0040 - 0.0080 in/in | 0.40 - 0.80 %    | D 955                |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>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                        | 4.0 ft-lbs/in              | 214 J/m     | D 4812 |
| Tensile Strength                                         | 5000 psi                   | 34 MPa      | D 638  |
| Tensile Elongation                                       | 3.0 - 6.0 %                | 3.0 - 6.0 % | D 638  |
| Tensile Modulus                                          | 0.75 x 10 <sup>6</sup> psi | 5171 MPa    | D 638  |
| Flexural Strength                                        | 7000 psi                   | 48 MPa      | D 790  |
| Flexural Modulus                                         | 0.45 x 10 <sup>6</sup> psi | 3103 MPa    | D 790  |

**ELECTRICAL**

|                                                     |              |              |                    |
|-----------------------------------------------------|--------------|--------------|--------------------|
| Volume Resistivity                                  | < 1E3 ohm.cm | < 1E3 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   | 380 - 450 °F      | 193 - 232 °C     |
| Mold Temperature   | 70 - 150 °F       | 21 - 66 °C       |
| Drying             | 2 hrs @ 175 °F    | 2 hrs @ 79 °C    |