



**Product Data Sheet &  
General Processing Conditions**

**ESD A 205  
Nylon 6/6 (PA)  
Glass Fiber  
ESD Protection  
Static Dissipative**

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

| PERMANENCE                                   | English               | SI Metric     | ASTM TEST |
|----------------------------------------------|-----------------------|---------------|-----------|
| Primary Additive                             | 30 %                  | 30 %          |           |
| Specific Gravity                             | 1.40                  | 1.40          | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0030 - 0.0050 in/in | 0.30 - 0.50 % | 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                        | 8.0 ft-lbs/in              | 427 J/m     | D 4812 |
| Tensile Strength                                         | 13000 psi                  | 90 MPa      | D 638  |
| Tensile Elongation                                       | 1.0 - 3.0 %                | 1.0 - 3.0 % | D 638  |
| Tensile Modulus                                          | 1.10 x 10 <sup>6</sup> psi | 7584 MPa    | D 638  |
| Flexural Strength                                        | 18000 psi                  | 124 MPa     | D 790  |
| Flexural Modulus                                         | 1.00 x 10 <sup>6</sup> psi | 6895 MPa    | D 790  |

**ELECTRICAL**

|                                                     |                     |                     |                    |
|-----------------------------------------------------|---------------------|---------------------|--------------------|
| Volume Resistivity                                  | 1E3 - 9.9E9 ohm.cm  | 1E3 - 9.9E9 ohm.cm  | D 257              |
| Surface Resistivity                                 | 1E5 - 9.9E11 ohm/sq | 1E5 - 9.9E11 ohm/sq | D 257              |
| 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 - 18000 psi | 69 - 124 MPa  |
| Melt Temperature   | 530 - 570 °F      | 277 - 299 °C  |
| Mold Temperature   | 150 - 225 °F      | 66 - 107 °C   |
| Drying             | 4 hrs @ 175 °F    | 4 hrs @ 79 °C |
| Moisture Content   | 0.20 %            | 0.20 %        |
| Dew Point          | 0 °F              | -18 °C        |

**PROCESSING NOTES**

Desiccant Type Dryer Required.