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**Product Data Sheet &  
General Processing Conditions**

**ESD A 200 A  
Nylon 6 (PA)  
ESD Protection  
Static Dissipative**

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

| PERMANENCE                                   | English               | SI Metric     | ASTM TEST |
|----------------------------------------------|-----------------------|---------------|-----------|
| Specific Gravity                             | 1.17                  | 1.17          | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0120 - 0.0160 in/in | 1.20 - 1.60 % | D 955     |

**MECHANICAL**

|                                   |                            |          |        |
|-----------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod             |                            |          |        |
| notched 1/8 in (3.2 mm) section   | 2.0 ft-lbs/in              | 107 J/m  | D 256  |
| unnotched 1/8 in (3.2 mm) section | No Break                   | No Break | D 4812 |
| Tensile Strength                  | 7500 psi                   | 52 MPa   | D 638  |
| Tensile Elongation                | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus                   | 0.40 x 10 <sup>6</sup> psi | 2758 MPa | D 638  |
| Flexural Strength                 | 13000 psi                  | 90 MPa   | D 790  |
| Flexural Modulus                  | 0.40 x 10 <sup>6</sup> psi | 2758 MPa | D 790  |

**ELECTRICAL**

|                                     |                         |                         |                    |
|-------------------------------------|-------------------------|-------------------------|--------------------|
| Volume Resistivity                  | 1000 - 9.9E+09 ohm.cm   | 1000 - 9.9E+09 ohm.cm   | D 257              |
| Surface Resistivity                 | 1.0E+5 - 9.9E+11 ohm/sq | 1.0E+5 - 9.9E+11 ohm/sq | D 257              |
| Surface Resistance                  | 1.0E+4 - 9.9E+10 ohm    | 1.0E+4 - 9.9E+10 ohm    | ESD STM11.11       |
| Static Decay                        |                         |                         | ESD STM11.11       |
| 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   | 470 - 535 °F      | 243 - 279 °C  |
| Mold Temperature   | 130 - 200 °F      | 54 - 93 °C    |
| Drying             | 2 hrs @ 180 °F    | 2 hrs @ 82 °C |
| Moisture Content   | 0.20 %            | 0.20 %        |
| Dew Point          | 0 °F              | -18 °C        |

**PROCESSING NOTES**

Desiccant Type Dryer Required.