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**Product Data Sheet &  
General Processing Conditions**

**EMI 331 E FR  
Polycarbonate (PC)  
10% Glass Fiber  
Stainless Steel Fiber  
Electrically Conductive  
EMI/RFI/ESD Protection  
Flame Retardant**



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

| <b>PERMANENCE</b>                            | <b>English</b> | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|----------------|------------------|------------------|
| Primary Additive                             | 10 %           | 10 %             |                  |
| Specific Gravity                             | 1.50           | 1.50             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0030 in/in   | 0.30 %           | D 955            |

**MECHANICAL**

|  |                            |          |        |
|--|----------------------------|----------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.5 ft-lbs/in              | 80 J/m   | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 10.0 ft-lbs/in             | 534 J/m  | D 4812 |
| Tensile Strength   | 13000 psi                  | 90 MPa   | D 638  |
| Tensile Elongation                                       | 3.0 %                      | 3.0 %    | D 638  |
| Tensile Modulus  | 0.75 x 10 <sup>6</sup> psi | 5171 MPa | D 638  |
| Flexural Strength  | 21000 psi                  | 145 MPa  | D 790  |
| Flexural Modulus   | 0.72 x 10 <sup>6</sup> psi | 4964 MPa | D 790  |

**ELECTRICAL**

|                                     |              |              |                    |
|-------------------------------------|--------------|--------------|--------------------|
| Volume Resistivity                  | < 10 ohm.cm  | < 10 ohm.cm  | D 257              |
| Surface Resistivity                 | < 1E4 ohm/sq | < 1E4 ohm/sq | D 257              |
| Surface Resistance                  | < 1E3 ohm    | < 1E3 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 |

**THERMAL**

|                                      |               |              |      |
|--------------------------------------|---------------|--------------|------|
| Ignition Resistance*<br>Flammability | V-0 @ 1/16 in | V-0 @ 1.5 mm | UL94 |
|--------------------------------------|---------------|--------------|------|

**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.  
 \* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 530 - 580 °F      | 277 - 304 °C     |
| Mold Temperature   | 160 - 250 °F      | 71 - 121 °C      |
| Drying             | 4 hrs @ 250 °F    | 4 hrs @ 121 °C   |
| Moisture Content   | 0.02 %            | 0.02 %           |
| Dew Point          | -20 °F            | -29 °C           |