



**Product Data Sheet &  
General Processing Conditions**

**ESD C 2580 FR**  
**Polycarbonate/ABS Alloy (PC/ABS)**  
**ESD Protection**  
**Electrically Conductive**  
**Flame Retardant**



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

| PERMANENCE                                   | English      | SI Metric | ASTM TEST |
|----------------------------------------------|--------------|-----------|-----------|
| Specific Gravity                             | 1.29         | 1.29      | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0010 in/in | 0.10 %    | 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                        | 6.0 ft-lbs/in              | 320 J/m   | D 4812 |
| Tensile Strength                                         | 18000 psi                  | 124 MPa   | D 638  |
| Tensile Elongation                                       | 1.5 %                      | 1.5 %     | D 638  |
| Tensile Modulus                                          | 1.75 x 10 <sup>6</sup> psi | 12066 MPa | D 638  |
| Flexural Strength                                        | 25000 psi                  | 172 MPa   | D 790  |
| Flexural Modulus                                         | 1.50 x 10 <sup>6</sup> psi | 10342 MPa | D 790  |

**ELECTRICAL**

|                     |              |              |       |
|---------------------|--------------|--------------|-------|
| Volume Resistivity  | < 1E0 ohm.cm | < 1E0 ohm.cm | D 257 |
| Surface Resistivity | < 1E4 ohm/sq | < 1E4 ohm/sq | D 257 |

**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**

|                    | English           | SI Metric     |
|--------------------|-------------------|---------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa  |
| Melt Temperature   | 470 - 525 °F      | 243 - 274 °C  |
| Mold Temperature   | 125 - 200 °F      | 52 - 93 °C    |
| Drying             | 4 hrs @ 200 °F    | 4 hrs @ 93 °C |
| Moisture Content   | 0.02 %            | 0.02 %        |
| Dew Point          | -20 °F            | -29 °C        |

**PROCESSING NOTES**

Desiccant Type Dryer Required.