



**Product Data Sheet &  
General Processing Conditions**

**ESD A 1005  
Polybutylene Terephthalate (PBT)  
Glass Fiber  
ESD Protection  
Static Dissipative**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.47	1.47	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	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	13.3 ft-lbs/in	710 J/m	D 4812
Tensile Strength	12500 psi	86 MPa	D 638
Tensile Elongation	3.0 %	3.0 %	D 638
Tensile Modulus	1.05 x 10 <sup>6</sup> psi	7240 MPa	D 638
Flexural Strength	20400 psi	141 MPa	D 790
Flexural Modulus	1.05 x 10 <sup>6</sup> psi	7240 MPa	D 790

**ELECTRICAL**

Volume Resistivity	1E2 - 1E5 ohm.cm	1E2 - 1E5 ohm.cm	D 257
Surface Resistivity	1E5 - 1E10 ohm/sq	1E5 - 1E10 ohm/sq	D 257
Surface Resistance	1E4 - 1E9 ohm	1E4 - 1E9 ohm	ESD STM11.11
Static Decay MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 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	460 - 520 °F	238 - 271 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.03 %	0.03 %
Dew Point	-20 °F	-29 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.