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Poncioplastics.com



**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

PERMANENCE	English	SI Metric	ASTM TEST
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 ⁶ psi	7240 MPa	D 638
Flexural Strength	20400 psi	141 MPa	D 790
Flexural Modulus	1.05 x 10 ⁶ 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

	English	SI Metric
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.