



**Product Data Sheet &
General Processing Conditions**

**PermaStat PLUS® 700
High Density Polyethylene (HDPE)
Permanently Anti-static
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.96	0.96	D 792
Melt Flow Rate @ 190 °C, / 2.16 kg	9.00 g/10 min	9.00 g/10 min	D 1238
Molding Shrinkage 1/8 in (3.2 mm) section	0.0200 - 0.0400 in/in	2.00 - 4.00 %	D 955

MECHANICAL

Impact Strength, Izod 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	No Break	No Break	D 4812
Tensile Strength	2500 psi	17 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.10 x 10 ⁶ psi	690 MPa	D 638
Flexural Strength	2600 psi	18 MPa	D 790
Flexural Modulus	0.10 x 10 ⁶ psi	690 MPa	D 790

ELECTRICAL

Volume Resistivity	< 1E8 ohm.cm	< 1E8 ohm.cm	D 257
Surface Resistivity	< 1E10 ohm/sq	< 1E10 ohm/sq	D 257
Static Decay	< 0.50 s	< 0.50 s	FTMS101C 4046.1

THERMAL

Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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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.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	350 - 400 °F	177 - 204 °C
Mold Temperature	70 - 125 °F	21 - 52 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C

PROCESSING NOTES

Do not exceed 520 °F (270 °C) melt temperature.