



**Product Data Sheet &
General Processing Conditions**

**PermaStat PLUS® 100 HI
Polypropylene (PP)
High Impact
ESD Protection
Permanently Anti-static**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	0.92	0.92	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0100 - 0.0200 in/in	1.00 - 2.00 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 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	0.14 x 10 ⁶ psi	965 MPa	D 638
Flexural Strength	3500 psi	24 MPa	D 790
Flexural Modulus	0.12 x 10 ⁶ psi	827 MPa	D 790

ELECTRICAL

Volume Resistivity	1E7 - 9.9E8 ohm.cm	1E7 - 9.9E8 ohm.cm	D 257
Surface Resistivity	1E8 - 9.9E9 ohm/sq	1E8 - 9.9E9 ohm/sq	D 257
Surface Resistance	1E7 - 9.9E8 ohm	1E7 - 9.9E8 ohm	ESD STM11.11
Static Decay			ESD STM11.11
MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 0.50 s	< 0.50 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	7000 - 11000 psi	48 - 76 MPa
Melt Temperature	340 - 400 °F	171 - 204 °C
Mold Temperature	90 - 150 °F	32 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C
Moisture Content	0.10 %	0.10 %

PROCESSING NOTES

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