



**Product Data Sheet &
General Processing Conditions**

**PermaStat® 200 A
Nylon 6 (PA)
ESD Protection
Permanently Anti-static**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.13	1.13	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0100 - 0.0150 in/in	1.00 - 1.50 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	3.0 ft-lbs/in	160 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	8400 psi	58 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.35 x 10 ⁶ psi	2413 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.31 x 10 ⁶ psi	2137 MPa	D 790

ELECTRICAL

Volume Resistivity	1E9 - 9.9E10 ohm.cm	1E9 - 9.9E10 ohm.cm	D 257
Surface Resistivity	1E10 - 9.9E11 ohm/sq	1E10 - 9.9E11 ohm/sq	D 257
Surface Resistance	1E9 - 9.9E10 ohm	1E9 - 9.9E10 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	380 - 460 °F	193 - 238 °C
Mold Temperature	150 - 200 °F	66 - 93 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

PROCESSING NOTES

Do not exceed 520 °F (270 °C) melt temperature.
Desiccant Type Dryer Required.