



Product Data Sheet & General Processing Conditions

PermaStat PLUS® 300 A Polycarbonate (PC) Permanently Static Dissipative ESD Protection

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.17	1.17	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0090 in/in	0.60 - 0.90 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	17.0 ft-lbs/in	908 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	7000 psi	48 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.24 x 10 ⁶ psi	1655 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.29 x 10 ⁶ psi	2000 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	< 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	6000 - 10000 psi	41 - 69 MPa
Melt Temperature	430 - 470 °F	221 - 243 °C
Mold Temperature	150 - 250 °F	66 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

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

Desiccant Type Dryer Required.

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This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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