



(+) 18816996168
Ponciplastics.com

**Product Data Sheet &
General Processing Conditions**

**PermaStat® 400
Polystyrene (PS)
ESD Protection
Permanently Anti-static**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.05	1.05	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0060 - 0.0080 in/in	0.60 - 0.80 %	D 955

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	4.0 ft-lbs/in	214 J/m	D 4812
Tensile Strength	3000 psi	21 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.25 x 10 ⁶ psi	1724 MPa	D 638
Flexural Strength	6000 psi	41 MPa	D 790
Flexural Modulus	0.25 x 10 ⁶ psi	1724 MPa	D 790

ELECTRICAL

Volume Resistivity	1.0e9 - 9.9e10 ohm.cm	1.0e9 - 9.9e10 ohm.cm	D 257
Surface Resistivity	1.0e10 - 9.9e11 ohm/sq	1.0e10 - 9.9e11 ohm/sq	D 257
Surface Resistance	1.0e9 - 9.9e10 ohm	1.0e9 - 9.9e10 ohm	ESD STM11.11
Static Decay			ESD STM11.11
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 - 450 °F	193 - 232 °C
Mold Temperature	100 - 150 °F	38 - 66 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C

PROCESSING NOTES

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