



**Product Data Sheet &
General Processing Conditions**

**ESD 800 HB
Acetal (POM)
ESD Protection
Static Dissipative**


PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.38	1.38	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0300 in/in	1.50 - 3.00 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.3 ft-lbs/in	69 J/m	D 256
unnotched 1/8 in (3.2 mm) section	17.0 ft-lbs/in	908 J/m	D 4812
Tensile Strength	6500 psi	45 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.22 x 10 ⁶ psi	1517 MPa	D 638
Flexural Strength	8200 psi	57 MPa	D 790
Flexural Modulus	0.27 x 10 ⁶ psi	1862 MPa	D 790

ELECTRICAL

Volume Resistivity	1E2 - 1E6 ohm.cm	1E2 - 1E6 ohm.cm	D 257
Surface Resistivity	< 1E7 ohm/sq	< 1E7 ohm/sq	D 257
Surface Resistance	< 1E6 ohm	< 1E6 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

THERMAL

Ignition Resistance* Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94
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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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	360 - 425 °F	182 - 218 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	2 hrs @ 250 °F	2 hrs @ 121 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C

PROCESSING NOTES

Desiccant Type Dryer Required.