



**Product Data Sheet &
General Processing Conditions**

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



Notched Charpy Impact Strength: 7.0 KJ/M² Unnotched Charpy Impact Strength: 52 KJ/M²

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	21.0 ft-lbs/in	1121 J/m	D 4812
Tensile Strength	6700 psi	46 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.28 x 10 ⁶ psi	1931 MPa	D 638
Flexural Strength	9300 psi	64 MPa	D 790
Flexural Modulus	0.29 x 10 ⁶ psi	2000 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			
MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	180 °F	82 °C	D 648
Ignition Resistance*			
Flammability	HB @ 1/16 in	HB @ 1.5 mm	UL94

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