



**Product Data Sheet &  
General Processing Conditions**

**PermaStat® 800  
Acetal (POM)  
Permanently Anti-static  
ESD Protection**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.33	1.33	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0180 - 0.0250 in/in	1.80 - 2.50 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	2.0 ft-lbs/in	107 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	6400 psi	44 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.20 x 10 <sup>6</sup> psi	1379 MPa	D 638
Flexural Strength	7200 psi	50 MPa	D 790
Flexural Modulus	0.23 x 10 <sup>6</sup> psi	1586 MPa	D 790

**ELECTRICAL**

Volume Resistivity	1E+09 - 9.9E+10 ohm.cm	1E+09 - 9.9E+10 ohm.cm	D 257
Surface Resistivity	1E+10 - 9.9E+11 ohm/sq	1E+10 - 9.9E+11 ohm/sq	D 257
Surface Resistance	1E+09 - 9.9E+10 ohm	1E+09 - 9.9E+10 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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	350 - 400 °F	177 - 204 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	2 hrs @ 250 °F	2 hrs @ 121 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C

**PROCESSING NOTES**

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