



Product Data Sheet & General Processing Conditions

PermaStat® 800 TFE 15 Acetal (POM) PTFE Lubricated Permanently Anti-static ESD Protection

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	15 %	15 %	
Specific Gravity	1.40	1.40	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0150 - 0.0200 in/in	1.50 - 2.00 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	5000 psi	34 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.20 x 10 ⁶ psi	1379 MPa	D 638
Flexural Strength	7000 psi	48 MPa	D 790
Flexural Modulus	0.22 x 10 ⁶ psi	1517 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 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	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.

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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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