

Product Data Sheet & General Processing Conditions

PermaStat® 1500-50D Polyether-Ester Block Copolymer (TEEE/COPE) Permanently Anti-static ESD Protection

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.19	1.19	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0140 - 0.0200 in/in	1.40 - 2.00 %	D 955
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	No Break	No Break	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	3600 psi	25 MPa	D 638
Tensile Elongation	> 500.0 %	> 500.0 %	D 638
Hardness			
Shore D, instantaneous	50	50	D 2240
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	< 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 - 430 °F	193 - 221 °C	
Mold Temperature	70 - 120 °F	21 - 49 °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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