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**Product Data Sheet &
General Processing Conditions**

**PermaStat® 1200 T-70A
Thermoplastic Polyurethane Elastomer (TPUR/TPU)
Permanently Anti-static
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.06	1.06	D 792
MECHANICAL			
Tensile Strength	1500 psi	10 MPa	D 412
Tensile Elongation	> 1500.0 %	> 1500.0 %	D 412
Hardness			
Shore A, 10 s delay	70	70	D 2240
ELECTRICAL			
Volume Resistivity	1E9 - 9.9E10 ohm.cm	1E9 - 9.9E10 ohm.cm	D 257
Surface Resistivity	1E10 - 9.9E11 ohm/sq	1E10 - 9.9E11 ohm/sq	D 257
Surface Resistance	1E9 - 9.9E10 ohm	1E9 - 9.9E10 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

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	7000 - 12000 psi	48 - 83 MPa
Melt Temperature	350 - 420 °F	177 - 216 °C
Mold Temperature	60 - 150 °F	16 - 66 °C
Drying	6 hrs @ 225 °F	6 hrs @ 107 °C
Moisture Content	0.03 %	0.03 %
Dew Point	0 °F	-18 °C

PROCESSING NOTES

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