



**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**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.06	1.06	D 792
<b>MECHANICAL</b>			
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
<b>ELECTRICAL</b>			
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
			ESD STM11.11
Surface Resistance	1E9 - 9.9E10 ohm	1E9 - 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**

	<b>English</b>	<b>SI Metric</b>
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.