



**Product Data Sheet &
General Processing Conditions**

**ESD C 1200 S-85A
Ester-based Thermoplastic Polyurethane Elastomer
(TPUR/TPU)
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.27	1.27	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0090 in/in	0.90 %	D 955
MECHANICAL			
Tensile Strength	4000 psi	28 MPa	D 638
Tensile Elongation	540.0 %	540.0 %	D 638
Hardness Shore A, 10 s delay	88	88	D 2240
ELECTRICAL			
Volume Resistivity	< 1E4 ohm.cm	< 1E4 ohm.cm	D 257
Surface Resistivity	< 1E6 ohm/sq	< 1E6 ohm/sq	D 257

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	5000 - 10000 psi	34 - 69 MPa
Melt Temperature	370 - 425 °F	188 - 218 °C
Mold Temperature	60 - 90 °F	16 - 32 °C
Drying	6 hrs @ 180 °F	6 hrs @ 82 °C
Moisture Content	0.02 %	0.02 %

PROCESSING NOTES

Desiccant Type Dryer Required.