



**Product Data Sheet &
General Processing Conditions**

**ESD C 2800 B-85A Black
Thermoplastic Vulcanizate (TPV)
Electrically Conductive
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.01	1.01	D 792
MECHANICAL			
Tensile Strength			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	1300 psi	9 MPa	D 412
Tensile Elongation			
Break, Die C, 0.125 in, 20 in/min (3.2mm, 500 mm/min)	> 500.0 %	> 500.0 %	D 412
Tensile Stress			
Die C 0.125 in, 20 in/min (3.2 mm, 500 mm/min)			
@ 100 %	690.0 psi	4.8 MPa	D 412
Tear Strength, Die C	255.0 pli	44.7 N/mm	D 624
Hardness			
Shore A, 10 s delay	85	85	D 2240
ELECTRICAL			
Volume Resistivity	< 1E3 ohm.cm	< 1E3 ohm.cm	D 257
Surface Resistivity	< 1E5 ohm/sq	< 1E5 ohm/sq	D 257
Static Decay			
MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 2.00 s	< 2.00 s	FTMS101C 4046.1
THERMAL			
Ignition Resistance*			
Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
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.

* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	360 - 410 °F	182 - 210 °C
Mold Temperature	60 - 150 °F	16 - 66 °C
Drying	2 hrs @ 175 °F	2 hrs @ 79 °C
Moisture Content	0.03 %	0.03 %
Dew Point	0 °F	-18 °C