

# Carbon Conductive Elastomer

The following is a relative measurement of the resistance and shielding effectiveness properties for carbon conductive elastomer, tested in accordance with the procedures and requirements outlined in United States military specification MIL-DTL-83528.

Electrical Specifications	Tolerance	Test Method	Carbon Elastomer (Ohm-cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	7.000
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528	<b>Carbon Elastomer (dB)</b>
100 MHz (E-Field)	Minimum	MIL-DTL-83528	>50
500 MHz (E-Field)	Minimum	MIL-DTL-83528	>50
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>50
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>50

Properties (General Specifications for Carbon Elastomer)					
Hardness (Shore A)	Tensile (psi)	Elongation (%)	Tear (lb./in)	Volume Resistivity (ohm-cm)	Specific Gravity (g/cc)
75	650	70	-	7.000	0.95 - 1.45

Some properties of this material were tested to the MIL-DTL 83528 specification but this material is not designated as a MIL-DTL 83528 type material.

**Application:** The surface that this material is to be applied to must be conductive, meaning no non-conductive paint, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the conductive elastomer, shielding effectiveness will be greatly degraded.