

Nickel Graphite Conductive Elastomer

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

Electrical Specifications	Tolerance	Test Method	Nickel Graphite Elastomer (Ohm-cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	0.100
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528	Nickel Graphite Elastomer (dB)
100 MHz (E-Field)	Minimum	MIL-DTL-83528	>110
500 MHz (E-Field)	Minimum	MIL-DTL-83528	>110
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>110
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>110

Properties (General Specifications for Nickel Graphite Elastomer)

Hardness (Shore A)	Tensile (psi)	Elongation (%)	Tear (lb./in)	Volume Resistivity (ohm-cm)	Specific Gravity (g/cc)
30-70	200	100	40	0.100	1.60 - 2.10

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.