

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
Volume Resistivity (ohm-cm)	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	100
500 MHz (E-Field)	Minimum	MIL-DTL-83528	100
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	100
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	100

Properties (Range of general specifications for Nickel Graphite Elastomer)

Shore A	Tensile (psi)	Elongation (min.)	Tear (#/in)	Volume Resistivity ohm cm	Specific Gravity
30-70	150	100	40	0.100	1.95

This material has passed the MIL-DTL 83528C specification.

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.

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