Nickel/Aluminum Conductive Fluorosilicone Elastomer

The MAJR Nickel plated aluminum particle filled fluorosilicone is corrosion resistant and available as sheet stock in various thicknesses and extrusion profiles. The following is a relative measurement of electrical resistance, shielding effectiveness, and mechanical properties tested on a standard test configuration sample in accordance with procedures and requirements outlined in MIL-DTL-83528 and ASTM test standards.

Electrical Specifications	**Tolerance**	**Test Method**	**Nickel / Aluminum Fluorosilicone Elastomer (Ohm/cm)**
Volume Resistivity	Maximum	ASTM D991	0.250 max. (0.03 typ.)
Shielding Effectiveness (Frequencies)	**Tolerance**	**Test Method**	**Nickel / Aluminum Fluorosilicone Elastomer (dB)**
100 MHz (E-Field)	Minimum	MIL-DTL-83528	112
500 MHz (E-Field)	Minimum	MIL-DTL-83528	112
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	112
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	112

Properties (Range of general specifications for Nickel / Aluminum Fluorosilicone Elastomer)

ASTM D2240 Shore A (range, typ.)	**ASTM D412 Tensile psi (min./typ.)**	**ASTM D412 Elongation % (min./typ.)**	**ASTM D624 Tear ppi (min./typ.)**	**Thermal Stability (range)**	**ASTM D792 Specific Gravity (range, typ.)**
62-82, 69	150/200	50/350	35/50	-60°C - 220 °C	1.8 – 2.3, 2.15

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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