



Smart Technology. Delivered.

Nickel Aluminum Filled Fluorosilicone Elastomer



NICKEL ALUMINUM FILLED FLUOROSILICONE ELASTOMER

EcE135 is a Nickel-coated Aluminum filled fluorosilicone elastomer that has the highest corrosion resistance available. The fluorosilicone matrix allows for excellent resistance to fuels and solvents as well as high temperature performance. The compound can be extruded, or formed into sheets and then die cut. See our catalog for standard shapes that might be available to test, or provide information about your needs for a custom profile.

FEATURES

- Utilizes both conductive and non-conductive materials
- Fluorosilicone Polymer base resin extends the temperature range and improves standard environmental resistance to include resistance to some chemicals, fuels, and lubricants
- Corrosion resistant for military and harsh environmental applications
- Excellent Shielding Effectiveness (SE)
- More cost-effective than silver based solutions
- Able to extrude or mold in various standard sizes, shapes and sizes without a tooling charge

MARKETS

- DataCom
- Military
- Medical

SPECIFICATIONS	TARGET SPECIFICATION
Color	Gray
Elastomer	Fluorosilicone
Filler	Nickel Aluminum
Hardness	65 ± 7 Shore A
Volume Resistivity	0.15 ohm-cm, maximum
Density	2.05± 0.25 g/cm ³
Tensile Strength	150 psi, minimum
Elongation	60%-260%
100%-300%	35 ppi, minimum
Temperature Range	-55°C to 160°C
Corrosivity Per MIS-47057	<3.5mg MAX weight loss

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