Laird TECHNOLOGIES

Innovative **Technology** for a **Connected** World

EcE72
Silicone Elastomer
PRELIMINARY

NICKEL/GRAPHITE FILLED SILICONE ELASTOMER

EcE72 is a nickel/graphite filled silicone elastomer. EcE72 has excellent shielding properties and conductivity. This material has excellent sealing at temperature extremes, is ozone resistant, and has a long shelf life. It has been developed to meet UL94 V-0 standard (UL report pending).

This material can be molded, extruded, or formed into sheets and then die-cut. See our catalog for standard shapes available, or provide information about your needs for a custom profile.

FEATURES RoHS

- Utilizes both conductive and non-conductive materials
- Provides stronger environmental shielding to the outside of gaskets due to pure silicone
- Retains strong EMI protection
- Cost-effective solution
- Able to extrude in various sizes and profiles

MARKETS

- DataCom
- Military
- Medical

SPECIFICATIONS	TARGET SPECIFICATION
Color	Gray
Elastomer	Silicone
Filler	Nickel Graphite
Shielding Effectiveness	100 dB, minimum (20 MHz to 10 GHz)
Hardness	75 ± 7 Shore A
Volume Resistivity	0.1 ohm-cm, maximum
Density	2.3 ± 0.25 g/cm^3
Tensile Strength	280 psi, minimum
Elongation	150%, minimum
Tear Strength	55 ppi, minimum
Compression Set	30%, maximum
Temperature Range	-45°C to 150°C

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