

ESD/EMI/RFI Products



Kirkhill-TA: An Innovative Partner in the Development and Manufacture of ESD/EMI/RFI Elastomer Products.

Today, virtually every sophisticated system or manufacturing process incorporates an electronic component or process. To meet the new challenges posed by customers involved in this electronic revolution Kirkhill-TA has created new elastomer compounds and manufacturing processes that address the problems created by ESD/EMI/RFI. The result of this experience is a Kirkhill-TA capability that spans the complete range of electronic industry elastomer product applications from ESD high temperature solder resistant mats to high technology electromagnetic absorbent materials. Specific examples of Kirkhill-TA's product development and manufacturing experience include:

- ▶ ESD high temperature solder resistant mats
- ▶ ESD ergonomic floor mats
- ▶ Black / white ESD heel grounder
- ▶ Frit line testing band materials
- ▶ Mechanical seals
- ▶ EMI/RFI gaskets and conductive silicone sheet rubber including TA antenna seals
- ▶ Available in a variety of shapes and sizes

ESD Mats

- ▶ Single layer ESD floor mats
- ▶ ESD sponge anti-fatigue floor mats
- ▶ Two layer ESD hi-temp table rubber mats
- ▶ Three layer ESD hi-temp table rubber mats

ESD Black/White Heel Grounder

Frit Line Testing Band Materials for Television & Monitor Testing

EMI/RFI Gaskets Conductive Silicone Sheet Rubber

The advantage of these products is that they are based on resilient silicone elastomers. Kirkhill-TA EMI/RFI gaskets provide protection from environmental exposures (pressure differentials, moisture, etc.) as well as from electromagnetic interference.

Kirkhill-TA EMI/RFI gaskets are intended to provide a conductive seal for joint openings in electronic equipment housings, to limit or prevent the entry of emission of electromagnetic or radio frequency interference (EMI/RFI).

EMI/RFI gaskets include a variety of calendered, extruded, molded and fabricated products made from conductive silicones which are effective as EMI/RFI gaskets. They can be fabricated with metallic components for additional performance.

Design considerations for effective shielding include enclosure design, gasket joint design, material & shape of gasket, proper fastener design and EMI testing when completed.

There are 7 typical shaped gaskets (rod, tubing, enclosure door, "D" shape, channel bulb, bulb & lip). These are available in a full range of sizes.

RMA class 1 and RMA class 2 tolerances are available.
FCC class A and B device gaskets are available.

ESD Mats

Call Kirkhill's ESD/EMI/RFI design and manufacturing team early in the development cycle of your next product. Kirkhill-TA's broad experience and manufacturing capability will result in a successful partnership that will save you time and money.

