

## ESD/EMI/RFI Products

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### **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 electro-magnetic 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.

