

Conductive Elastomer Custom Molded Gaskets

Custom Molded Gaskets

Chomerics can mold conductive elastomer EMI gaskets to fit practically any application. With our range of high quality materials and efficient manufacturing systems we can provide attractive choices in price and performance. Chomerics engineers can rapidly optimize gasket designs, at little or no cost, using tools such as finite element analysis (see below). Prototype development, tooling and part delivery are each performed to meet our customers' requirements, with adherence to the industry's highest quality standards.

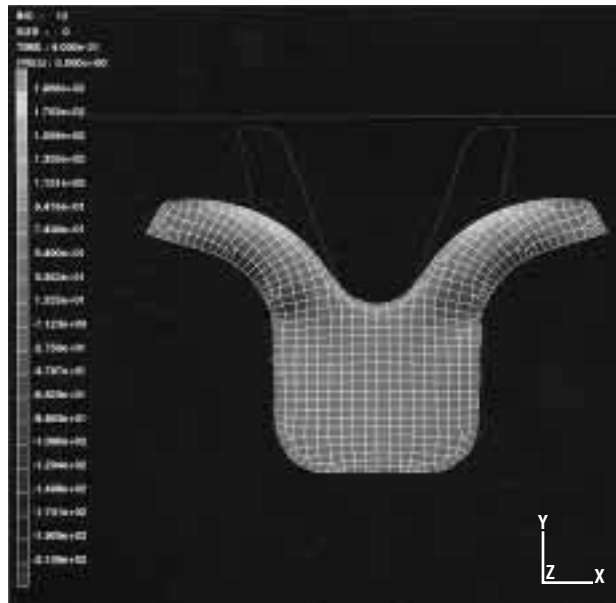
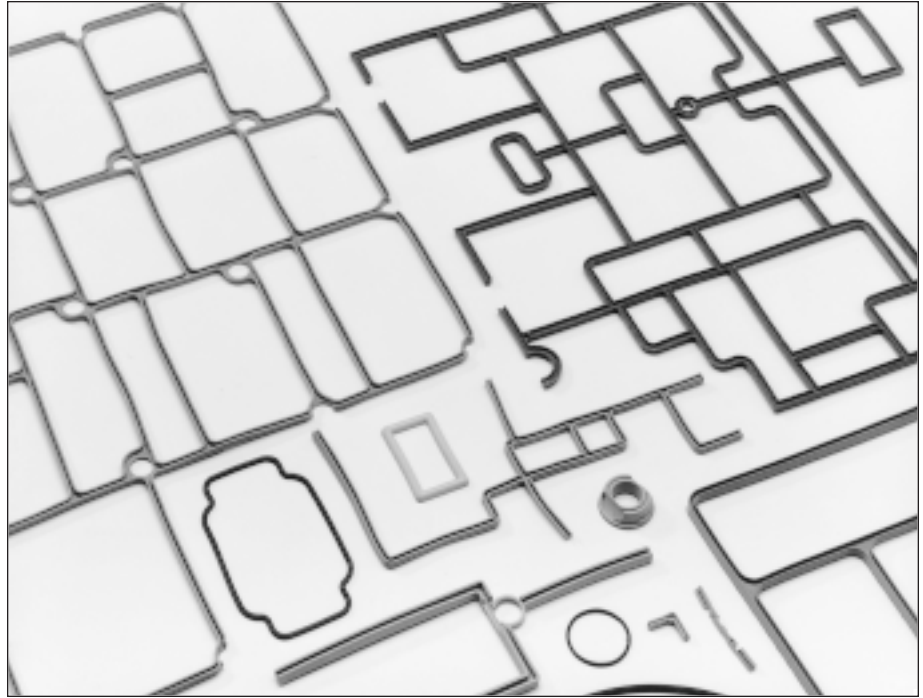
Custom molded elastomer gaskets can include tight corners, retention bumps and other special geometries. Many other features can be added, such as fabric or mesh reinforcement, pressure-sensitive adhesive, fasteners and compression stops. Non-conductive silicone environmental seals can be bonded to or co-molded with conductive EMI shielding elastomers. A selection of custom molded elastomer gasket parts is shown on these pages. Contact Chomerics' Applications Engineering Department to discuss how custom molded conductive elastomer shapes can be designed to meet your application requirements.

Finite Element Analysis

Chomerics, a division of the Parker Hannifin Corporation's Seal Group is the headquarters of Parker Seal's Elastomer Simulation Group. This unit specializes in elastomer finite element analysis (FEA), using the MARC K6 Series software as a foundation for FEA capability.

Benefits of FEA include:

- Optimizing elastomer gasket designs
- Allowing accurate predictions of alternate design concepts
- Eliminating extensive trial and error prototype evaluation.



Molded Gasket Cross Section, Nominal Squeeze
1st Comp of Cauchy Stress

Figure 3a

Figure 3a-c A typical use of FEA in designing molded gaskets is the evaluation of force and deflection needs for proposed designs. The FEA shown in Figure 3a above, performed on the cross section in 3b, predicts the gasket's deflection characteristics and compression requirements. Results are plotted in 3c.

Cross sections of typical custom molded conductive elastomer EMI gaskets

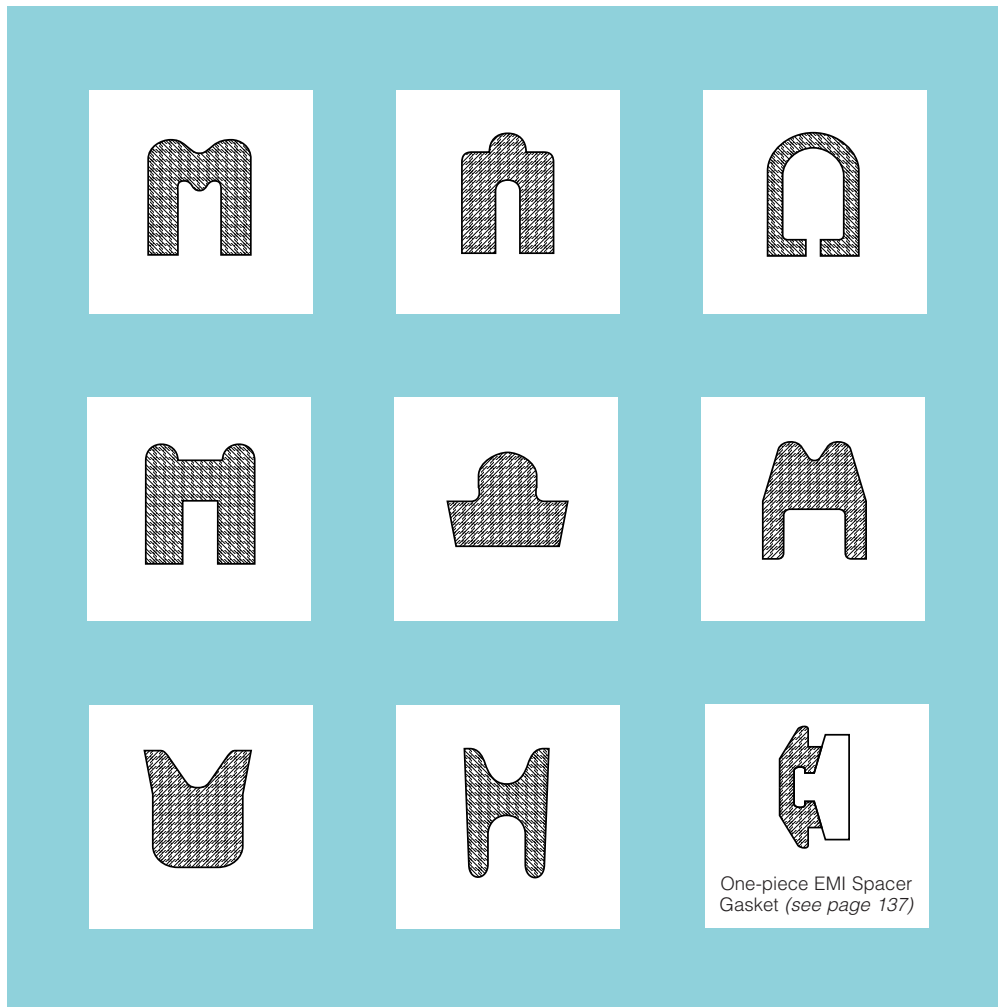


Figure 4

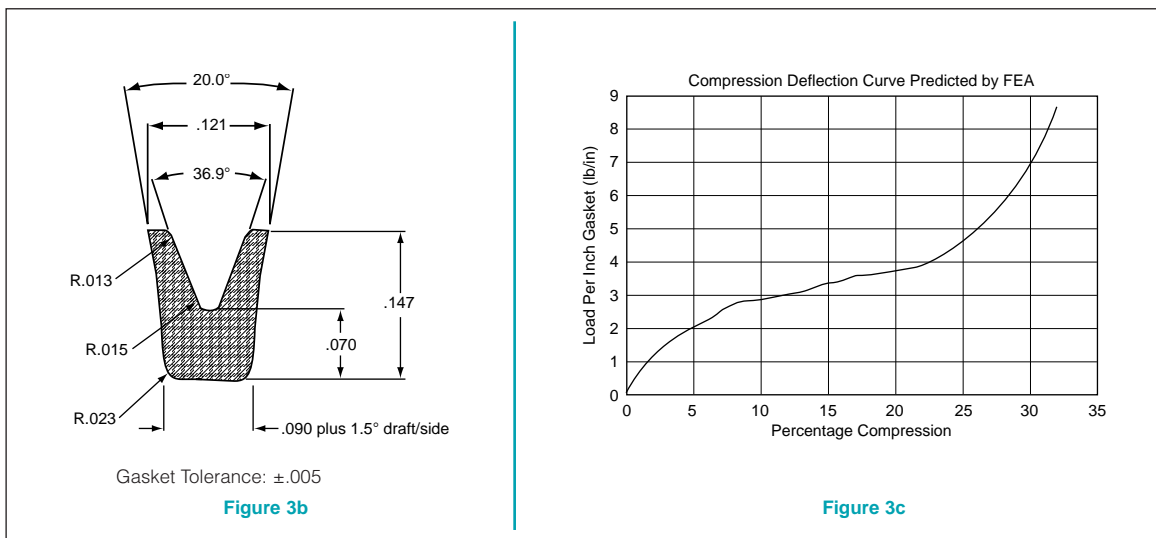


Figure 3b

Figure 3c