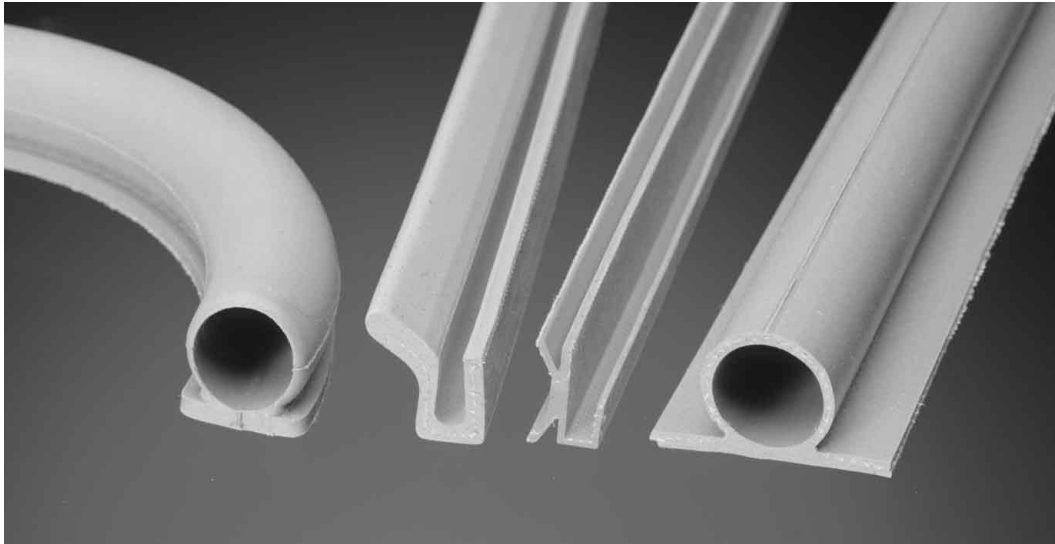


Reinforced Conductive Elastomer Seals



CHO-SEAL Reinforced Conductive Elastomer Seals

CHO-SEAL reinforced conductive elastomer seals consist of a corrosion-resistant CHO-SEAL conductive elastomer base, reinforced with a woven or knitted fabric material. These seals are intended for use in airframe shielding applications. The integrally molded reinforcing material provides improved mechanical properties, resulting in seals which withstand high levels of wear and abuse, while maintaining the electrical properties of the conductive elastomer base material.

CHO-SEAL reinforced seals are used to provide EMI shielding, lightning protection, HIRF protection and radar cross section reduction by maintaining surface electrical continuity

at joints, seams and openings in air frames. Typical applications include, but are not limited to, electronic bay doors, wing panel access covers, engine pylons, radomes and nacelle seals. Chomerics can design and develop custom cross sections and shapes to meet specific customer requirements. Finite element analysis modeling is used to predict the seal's force-deflection and other key mechanical properties, to ensure proper performance.

CHO-SEAL 1298, CHO-SEAL 1287 and CHO-SEAL 1285 corrosion-resistant silver-plated-aluminum filled silicones and fluorosilicones are typically used for the conductive elastomer base material. (See page 33 for more information.) Knitted Dacron fabrics are used as reinforcing layers to dramatically increase the tensile and tear strength of the

elastomer without adding weight to the seal. Layers of aluminum or Ferrex* wire mesh are used to provide high current-carrying capability required for lightning strike protection. Other reinforcing materials are available to provide resistance to flame.

For applications on aluminum skins or structures in salt fog environments, Chomerics recommends that mating flange surfaces be protected with CHO-SHIELD® 2001 or 2002 conductive coatings for maximum corrosion protection.

Ordering Procedure

CHO-SEAL Reinforced Conductive Elastomer Seals are produced as custom orders. Contact the Applications Engineering Department to review your requirements.

* Ferrex® is Chomerics' tin-plated, copper-clad steel wire per ASTM B-520, ASTM (QQ-W-343) tin-plate, 2-3% by weight; ASTM B-227 copper-cladding 30-40% by weight; SAE 1010 steel wire, balance by weight.