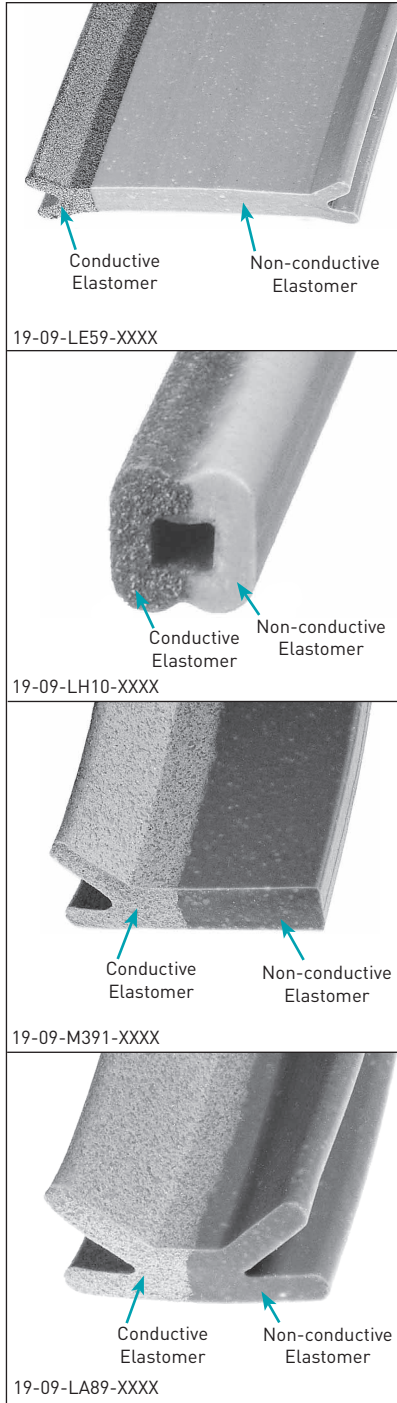


Extrusion Product Guide



**Note: Refer to "Surface Preparation of Metallic Substrates" on page 14 for important information on proper cleaning and application. Also request Technical Bulletin 20.*

Co-Extruded Strips

Optimum Shielding Performance Plus Corrosion Prevention

Chomerics manufactures a dual performance extruded gasket in one simple design. By a seam vulcanization process, CHO-SEAL or CHO-SIL conductive elastomers are extruded in parallel with non-conductive elastomers to provide EMI shielding and corrosion protection from one gasket. The outer, non-conductive gasket acts as an extra environmental seal to keep moisture away from the conductive gasket/flange interface. This prevents corrosion of the mating flange in marine or airborne environments. Co-extruded gaskets are also cost-effective, as they permit the use of existing flange designs and provide for gasket attachment via a less expensive non-conductive elastomer. A similar two gasket shielding system requires a costly double groove flange design.

Technically Superior Design

Typical examples of effective co-extruded gaskets include commercial and military communications equipment, rack mounted cabinetry, and aircraft doors and panels. These applications vary in required shielding performance. Each Chomerics co-extruded gasket is engineered in our applications laboratory to match the geometric constraints, closure requirements and shielding performance demanded by the application.

Availability

Many of the gasket cross section shapes and sizes listed on the previous pages can also be co-extruded. Common co-extruded configurations are pictured at left. Also refer to the following pages for a selection of co-extruded shapes currently available. Contact Chomerics to assist you in material selection.

Fast, Easy Conductive Elastomer Gasket Installation with Chomerics Adhesive Tape Attachment

Chomerics has developed a unique adhesive attachment material for CHO-SEAL or CHO-SIL conductive EMI gaskets. This non-conductive pressure-sensitive adhesive (PSA) tape is available on most extruded profiles with a flat tape attachment area, such as D-, P-, K- and rectangular cross sections.

PSA Application: This method of gasket attachment is easy and effective with a clean surface. Simply clean the surface prior to mounting the gasket.* Remove the release film and position the gasket using light pressure. When the gasket is properly positioned, firmly press onto the flange.

Advantages

- Peel strength (90°) in excess of 4.5 pounds per inch of width (ppi)
- Available in continuous length or cut to length. (Note: Some cross sections cannot be packaged in continuous lengths.)
- Eliminates fasteners or other adhesives
- Can function as a "third hand" to facilitate difficult installations
- Available with fluorosilicones as a permanent attachment method
- Quick stick – readily adheres to clean surfaces
- Conformable adhesion to curved surfaces
- Resists humidity, moisture, natural elements
- Eliminates solvent emissions and long set-up times

Disadvantages

- Not available on round cross sections
- Not recommended for applications where solvent resistance is essential
- Not recommended for applications where resistance to excessive abuse due to moving parts or traffic is required

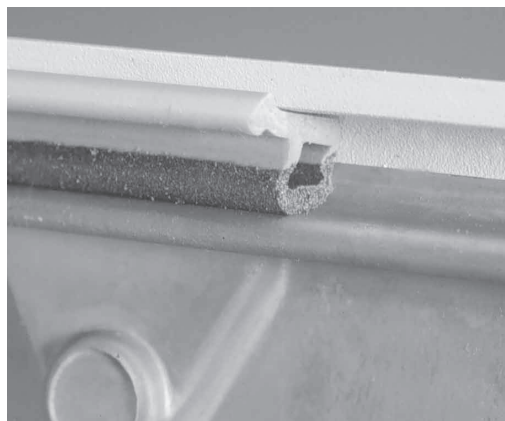
Table 20: Non-Conductive Extruded Elastomer Specifications*

Non-Conductive Extruded Elastomer Specifications*				
	Test Procedure [Type of Test]	CHO-SEAL 2532	CHO-SEAL 2542	CHO-SEAL 2557
Conductive Match	-	1215/1273	1287/1298/L6303	S6305/1285/1350/ 1215/1273/6372
Elastomer Binder	-	Silicone	Fluoro-Silicone	Silicone
Color	-	Black	Light Blue	Light Blue
Hardness, Shore A	ASTM D2240 (Q/C)	60±5	70±5	65±10
Specific Gravity (±0.25)	ASTM D792 (Q/C)	1.5	1.68	1.55
Tensile Strength, psi (MPa), min.	ASTM D412 (Q/C)	400 (2.76)	500 (3.45)	200 (1.38)
Elongation, % min.	ASTM D412 (Q/C)	130	65	100
Tear Strength, lb/in/ (kN/m), min.	ASTM D624 (Q/C)	35 (6.13)	30 (5.25)	35 (6.13)
*Materials used in the above chart are available to be used as Co-extrusions or bonded together with an EMI gasket.				

Dimensions shown in inches; 1 in. = 25.4 mm

Custom Co-Extruded Gaskets

Extruded in parallel, dual conductive/non-conductive gaskets provide optimum EMI shielding and corrosion protection in a single, cost-effective design. For performance and cost advantages of this approach, refer to page 41. To discuss your requirements, contact our Applications Engineering Department.



Custom Co-Extruded Strips

<p>19-05-10168-XXXX</p>	<p>19-09-11771-XXXX</p>	<p>19-18-13715-XXXX</p>
<p>19-18-F775-XXXX</p>	<p>19-09-LD55-XXXX</p>	<p>19-09-LE59-XXXX</p>
<p>19-09-LH10-XXXX</p>	<p>19-18-LJ12-XXXX</p>	<p>19-18-15489-XXXX</p>
<p>19-05-F011-XXXX</p>	<p>19-09-LA89-XXXX</p>	<p>19-09-X869-XXXX</p>
<p>19-09-Z721-XXXX</p>	<p>10-09-LH17-XXXX</p>	<p>19-18-15351-XXXX</p>
<p>19-18-M391-XXXX</p>	<p>19-18-M635-XXXX</p>	<p>19-18-16499-XXXX</p>

Dimensions shown in inches; 1 in. = 25.4 mm

<p>19-09-LF27-XXXX</p>	<p>19-24-12391-XXXX Combination Gasket</p>	<p>19-18-19078-XXXX</p>
<p>19-18-19247-XXXX</p>	<p>19-18-19358-XXXX</p>	<p>19-18-21184-XXXX</p>
<p>19-18-22999-XXXX</p>	<p>19-18-23616-XXXX</p>	<p>19-18-24773-XXXX</p>