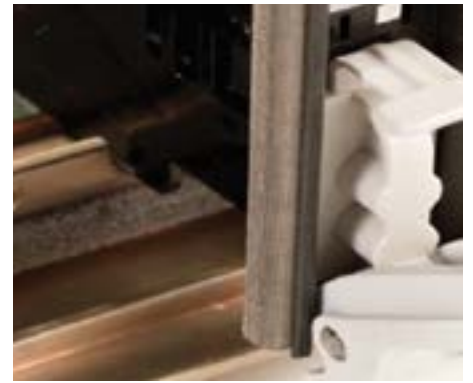


SOFT-SHIELD® 4850-STRIP

Multi-Planar Electrically Conductive Foam EMI Shielding Gaskets



Customer Value Proposition

Parker Chomerics SOFT-SHIELD® 4850-STRIP is the same multi-planar, Z-axis electrically conductive foam as SOFT-SHIELD 4850, but in a convenient strip format. SOFT-SHIELD 4850-STRIP is based on the unique integration of electrically conductive silver-plated fibers into a low-density urethane foam, providing for a performance-driven, cost-effective EMI shielding solution for indoor applications. SOFT-SHIELD 4850-STRIP offers greater EMI shielding performance from other SOFT-SHIELD products which may only consist of an electrically conductive jacket over traditional urethane foam.

Through the optimization of conductive fiber construction, loading and dispersion within the foam matrix, SOFT-SHIELD 4850-STRIP provides superb Z-axis conductivity with extremely short ground paths. Since the integrity of the base foam is uncompromised, SOFT-SHIELD 4850-STRIP offers exceptional physical and mechanical properties.

Contact Information

Parker Hannifin Corporation
Chomerics Division
77 Dragon Court
Woburn, MA 01801

phone 781 935 4850

fax 781 933 4318

chomailbox@parker.com

www.parker.com/chomerics



SOFT-SHIELD 4850-STRIP is flammability rated to UL 94 V-0 and is available in strip form in various widths, thicknesses and lengths. A uniform (silver-plated, copper particle) electrically conductive acrylic pressure sensitive adhesive (PSA) is available on one side to help secure after installation.

Product Features

- Conveniently pre-cut strips are ready to apply
- 95 dB shielding effectiveness from 20 MHz to 10 GHz
- Low compression set of less than 15%
- Stable electrical performance (through resistance) after multiple closure cycles
- Excellent through resistance (< 30 milliohm @ 25% gasket deflection)

- Non-nickel bearing material (silver-plated fibers)
- Available in strips with standard widths and thicknesses and various length options
- Z-axis conductivity allows compartmental shielding
- At low deflection (15%) demonstrates optimal electrical performance
- Offered with or without electrically conductive acrylic pressure sensitive adhesive (PSA)
- RoHS, REACH and UL 94 V-0 compliant

Typical Applications

- Panel seals
- Cover seals
- Grounding pads
- Door seals



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SOFT-SHIELD® 4850-STRIP – Product Information

Table 1 - Typical Properties

Typical Properties	SOFT-SHIELD® 4850-STRIP	Test Method
Compression-Deflection 3 mm thick sample	25% - 2.5 psi (17.2 kPa) 50% - 4.3 psi (29.6 kPa)	ASTM C165 (Modified)
Shielding Effectiveness 20 MHz to 10 GHz	Average: 70-80 (dB)	CHO-TM-TP08
Gasket Compression Set	<15%	ASTM D3574
Tensile Strength 3 mm thick sample	9.9 lbs/in ² (68.3 kPa)	ASTM D412 (Modified)
Electrically Conductive Acrylic PSA Peel Strength	15 oz/inch	ASTM D1000 (Modified to 90° peel)
Recommended % Deflection Range	15 - 50%	--
Flammability	V-0	UL 94
Operating Temperature	-40° to 70°C	--
Recommended Storage Conditions @ 50% Relative Humidity	70°F ± 20 (21°C ± 10)	--
Shelf Life, months from date of shipment	24*	--

*Possible extension of additional twelve (12) months. See Parker Chomerics Shelf Life Re-certification for Laminated Solutions document for procedure. Infinite shelf life for non-PSA part numbers.

Figure 1

Deflection vs Resistance - SOFT-SHIELD 4850 w/Conductive PSA (4850-12)@ 0.05 in/min (1 sq inch area sample)

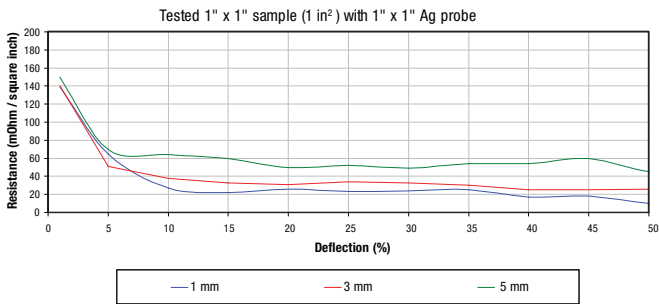
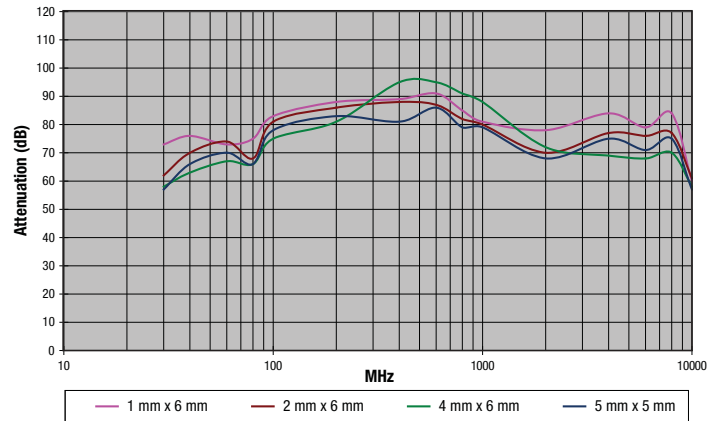


Table 2 - Standard Parts

Width (mm)	Thickness (mm)					
	1.0	1.5	2.0	3.0	4.0	5.0
2.5	2.5	2.5	2.5	2.5	N/A	N/A
3.0	3.0	3.0	3.0	3.0	3.0	N/A
4.0	4.0	4.0	4.0	4.0	4.0	4.0
4.5	4.5	4.5	4.5	4.5	4.5	4.5
5.0	5.0	5.0	5.0	5.0	5.0	5.0
6.0	6.0	6.0	6.0	6.0	6.0	6.0
6.5	6.5	6.5	6.5	6.5	6.5	6.5
7.0	7.0	7.0	7.0	7.0	7.0	7.0
8.0	8.0	8.0	8.0	8.0	8.0	8.0
9.0	9.0	9.0	9.0	9.0	9.0	9.0
10.0	10.0	10.0	10.0	10.0	10.0	10.0
12.0	12.0	12.0	12.0	12.0	12.0	12.0
13.0	13.0	13.0	13.0	13.0	13.0	13.0
15.0	15.0	15.0	15.0	15.0	15.0	15.0

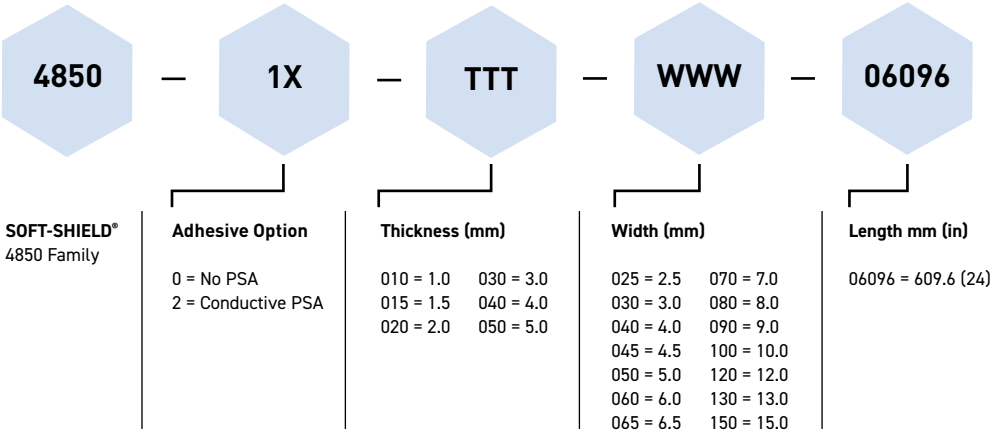
Figure 2

Shielding Effectiveness (dB) SOFT-SHIELD 4850 with Conductive PSA



SOFT-SHIELD® 4850-STRIP – Ordering Information

Table 3 - Part Numbering



EXAMPLE: 4850-12-015-065-06096 = 4850-STRIP part with a conductive PSA and dimensions of 1.5 mm thick by 6.5 mm wide by 609.6 mm long.

Custom widths and lengths available. Contact Parker Chomerics with inquiries.

www.parker.com/chomerics

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