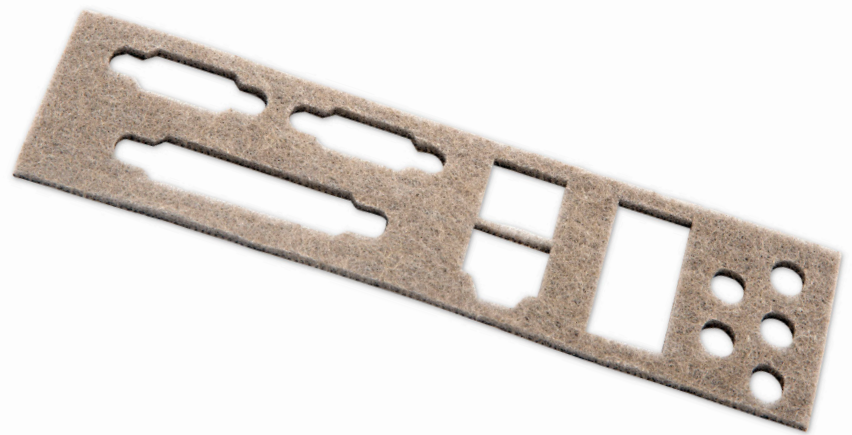
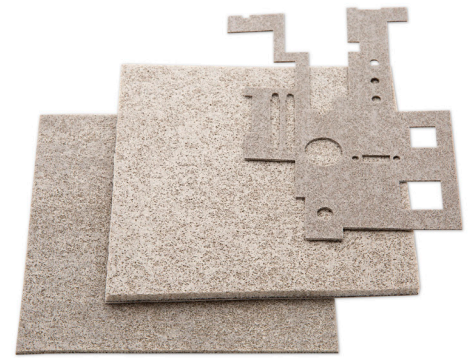


# SOFT-SHIELD® 4850

UL 94 V-0 Certified, Multi-planar EMI Gaskets

## Customer Value Proposition:

SOFT-SHIELD® 4850 represents the latest advancement in EMI shielding gaskets based on Multi-planar, Z-axis conductive foam technology. SOFT-SHIELD 4850 is based on the unique integration of electrically conductive silver-plated fibers into a low density urethane foam providing the basis for a performance driven cost effective EMI shielding solution. Through the optimization of conductive fiber construction, loading and dispersion within the foam matrix, SOFT-SHIELD 4850 provides superb Z-axis conductivity with extremely short ground paths. Since the integrity of the base foam is uncompromised, SOFT-SHIELD 4850 offers exceptional physical and mechanical properties. Offered in bulk roll form or custom die-cut shapes.



## 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](http://www.parker.com/chomerics)

## Product Features:

- UL94 V-0 rating
- Very low closure force
- Stable electrical performance (through resistance) after multiple closure cycles
- Excellent through resistance (< 30 milliohm @ 25% gasket deflection)
- Non-nickel bearing material (silver plated fibers)
- RoHS compliant
- Roll form compatible with high speed/ low cost part conversion
- Z-axis conductivity allows compartmental shielding
- At low deflection (5%) 4850 demonstrates optimal electrical performance.

- A uniform electrically conductive (silver plated, copper particle) acrylic pressure sensitive adhesive (PSA) is available on one side.

## Typical Applications:

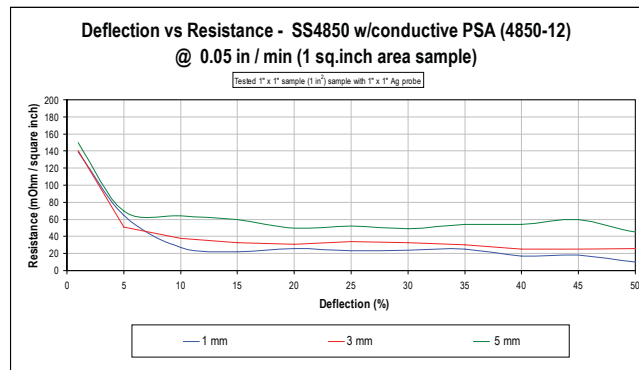
- Applicable for I/O panels, backplanes, connectors, access panels and rectangular/square strip gasket seals
- Telecom Infrastructure rack and enclosure components
- Servers and desktop PCs
- LCD/PDP large screen TV's
- Indoor electronics application requiring UL94 V-0 rating

# SOFT-SHIELD® 4850 - Product Information

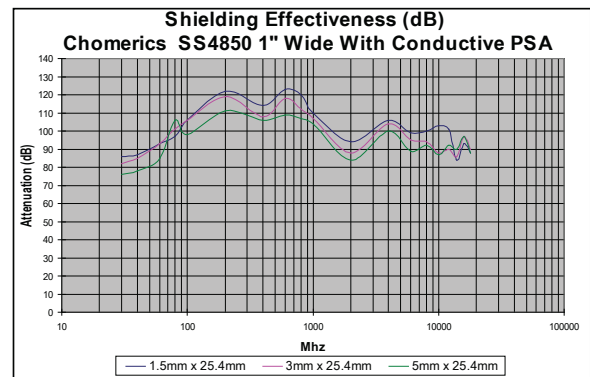
**Table 1 - Typical Properties**

Typical Properties	SOFT-SHIELD® 4850	Test Method
Compression-Deflection 3mm Thick sample	25% - 2.5 psi [17.2 kPa] 50% - 4.3 psi [29.6 kPa]	ASTM C165 (Mod.)
Through-Resistance	[See Figure 1]	--
Shielding Effectiveness 20MHz to 10 GHz	Average: 95 (dB)	CHO-TM-TP08
Gasket Compression Set	<15%	ASTM D3574
Tensile Strength 3mm Thick sample	306 lbs/in <sup>2</sup> [68.3 kPa]	ASTM D412 (Modified)
Electrically Conductive Acrylic PSA Peel Strength	15 oz./inch	ASTM D1000 (Modified to 90° peel)
Flammability	V-0	UL 94
Operating Temperature	-40° to 70° C	--

**Figure 1**



**Figure 2**



## ORDERING INFORMATION:

**Table 2 - Part Numbering (Bulk Roll)**

<b>4850</b>	—	<b>1X</b>	—	<b>0610</b>	—	<b>ZZZZ</b>
SOFT-SHIELD® 4850 Family		Material		Width mm (inches)		Thickness mm (inches) (ex. 0150 = 1.5 mm)
		0 = No PSA 2 = Conductive PSA		610 [24]		<b>0100</b> 1.0 [.039] <b>0300</b> 3.0 [.118] <b>0150</b> 1.5 [.060] <b>0400</b> 4.0 [.157] <b>0200</b> 2.0 [.078] <b>0500</b> 5.0 [.197]

**Table 3 - Custom Part Numbering**

<b>4850</b>	—	L	<b>XXXX</b>
SOFT-SHIELD® 4850 Family			LXXXX
			Custom die-cut shape with or without PSA assigned by Parker Chomerics

For custom die-cut parts, contact Parker Chomerics Inside Sales

[www.parker.com/chomerics](http://www.parker.com/chomerics)

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ENGINEERING YOUR SUCCESS.