

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:

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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	9.9 lbs./in ² psi [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

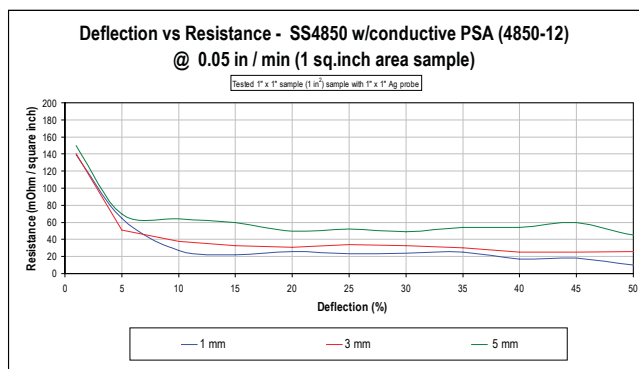
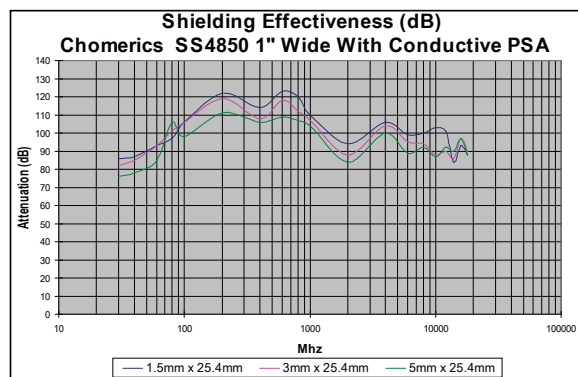


Figure 2



ORDERING INFORMATION:

Table 2 - Part Numbering (Bulk Roll)

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

Table 3 - Custom Part Numbering

4850	—	L	XXXX
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.chomerics.com
www.parker.com/chomerics

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TB 1022 EN April 2012 Rev C