

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. SS4850 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.



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Product Features:

- Very low closure force required
- 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.

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

Typical Applications:

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

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 4 or 5)	--
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)
Acrylic PSA Peel Strength	15 Oz./Inch	PSTC 1 Mod./ 180°
Flammability	V-0	UL 94
Operating Temperature	-40° to 70° C	--

Figure 1

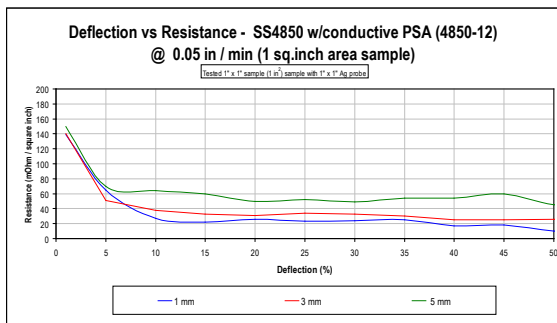


Figure 2

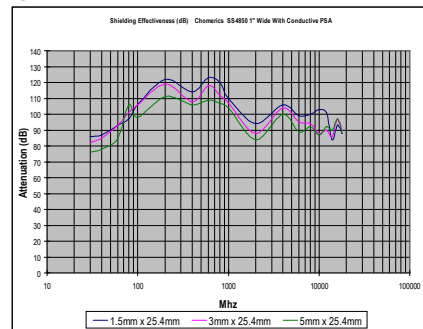


Table 2 - Part Numbering (Bulk Roll)

4850	-	1X	-	0610	-	
4850		1X		ZZZZ		
Material		0 = No PSA 2 = Conductive PSA		Width 610mm		Thickness (ex. 0150 = 1.5 mm)

Table 3 - Custom Part Numbering

4850	-	L
4850		LXXXX
Material		Custom die-cut shape with or without PSA

THICKNESSES AVAILABLE:

- 1.0mm (.039")
- 3.0mm (.118")
- 1.5mm (.060")
- 4.0mm (.157")
- 2.0mm (.078")
- 5.0mm (.197")