

Multi-planar EMI Gasket- UL 94V-0 Certified

SOFT-SHIELD® 4850 represents the latest advancement in EMI shielding gaskets based on Multi-planar, Z-axis conductive foam technology. SS4850 is certified to the rigorous demands of UL 94V-0 which is a requirement in many of today's telecom, computer and consumer electronics systems.

SS4850 is based on the unique integration of electrically conductive fibers into low density foam providing the basis for a performance driven, cost effective EMI shielding solution.



Fig 2 Cross Section showing Multi-planar fiber distribution (10X)

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.

SOFT-SHIELD 4850 is manufactured in rolls and is easily converted into product forms applicable for I/O panels, backplanes, connectors, access panels along with rectangular/ square strip gasket seals.

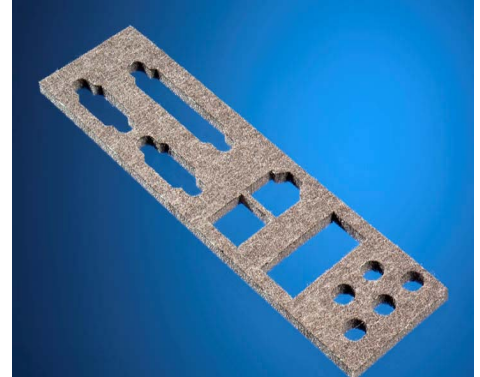


Fig 1. SOFT-SHIELD 4850 EMI Gasket

FEATURES / BENEFITS

- Very low closure force required
- Stable electrical performance (through resistance) after multiple closure cycles
- Excellent through resistance (< 30 milliohm @ 25% gasket deflection)
- Option of unique selectively coated PSA (pressure sensitive adhesive) optimizes gasket adhesion and electrical interface resistance. (Fig.3)
- Excellent compression set properties
- Non-nickel bearing material (silver plated fibers)
- RoHS compliant
- Roll form compatible with high speed/ low cost part conversion
- Z-axis conductivity allows for isolated grounding between components

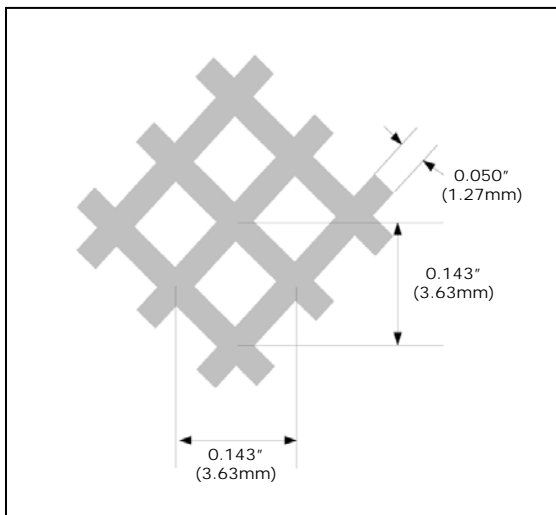


Figure 3 Cross-Hatch PSA

Typical Properties	SOFT-SHIELD® 4850	Test Method
Compression -Deflection (lb/linear inch) ex. 3mm Thick	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
Compression Set	<15%	ASTM D3574
Tensile Strength (3mm / in ²)	9.9 lbs./in ² psi (68.3 kPa)	ASTM D412 (Modified)
PSA Peel Strength	4.5 Oz./Inch (127gr / 25.4mm)	PSTC 1 Mod./ 180°
Flammability	V-0	UL 94
Operating Temperature	-40° to 70° C	--

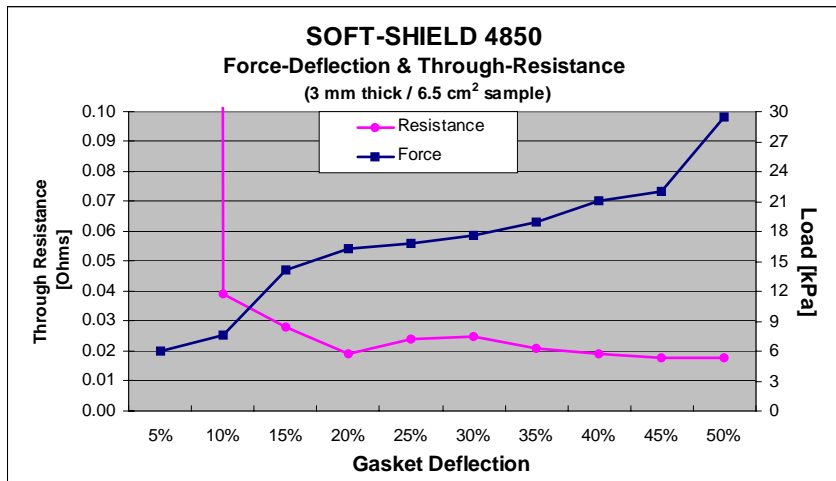


Fig 4 SOFT-SHIELD 4850 Force Deflection/Through Resistance

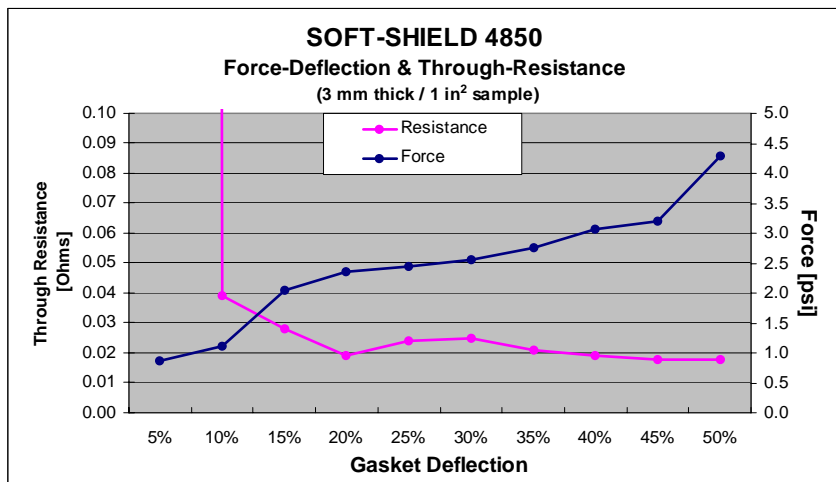


Fig 5 SOFT-SHIELD 4850 Force Deflection/Through Resistance

THICKNESSES AVAILABLE:

- 1mm (.039")
- 1.5mm (.060")
- 2mm (.078")
- 3mm (.118")
- 4mm (.157")
- 5mm (.197")

ORDERING INFORMATION:

4850-XX-YYYY-ZZZZ

XX- 10 no PSA or 11 with PSA
 YYYY- Width (maximum 1422mm)
 ZZZZ- Thickness (ex. 0150 = 1.5mm)

⚠ WARNING – USER RESPONSIBILITY

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