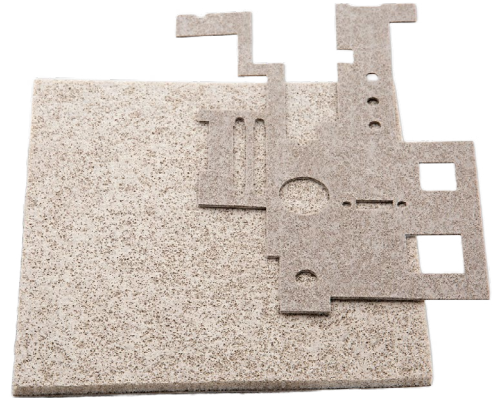


SOFT-SHIELD® 4840

Very Cost-Effective Electrically Conductive Foam Gaskets for High Volume Grounding Applications

Parker Chomerics SOFT-SHIELD® 4840 is a very cost-effective, electrically conductive foam used for grounding of environmentally controlled applications. Consisting of silver-plated nylon fibers embedded into a low-density urethane foam, SOFT-SHIELD® 4840 is a low compression force gasket solution ideal for high volume applications such as consumer devices and industrial electronics. It is a more cost effective version of the market leading SOFT-SHIELD® 4850, requiring lower compression forces yet providing slightly lower conductivity (higher through resistance).

SOFT-SHIELD® 4840 is expected to be flammability rated to UL 94 V-0 with an operating temperature range of -40°C to 70°C. The optimized dispersion of conductive fibers within the foam matrix means that this material is electrically stable over many closure cycles while typically experiencing a low compression set (<15%). Provided with or without an electrically conductive (Silver-Plated Copper filled) acrylic pressure sensitive adhesive, SOFT-SHIELD® 4840 is available in bulk rolls, cut sheets, strip gaskets or custom die cut shapes.



Product Features

- Very cost effective
- Z-axis electrical conductivity
- Good through resistance (<150 milliohms at 30% gasket deflection)
- Stable electrical performance (through resistance) after multiple closure cycles
- 60 dB typical shielding effectiveness from 20 MHz to 10 GHz
- Low closure force (<2 PSI)
- Low compression set (<15%)
- Available in bulk rolls, cut sheets or custom die cut shapes
- Non-nickel bearing material
- RoHS & REACH compliant
- UL 94 V-0 (Tested by Chomerics)

Typical Applications

- High volume consumer electronic devices
- Servers, desktop PCs, and laptops
- I/O panels, backplanes, connectors, access panels and rectangular/square strip gasket seals
- Telecom infrastructure rack and enclosure components

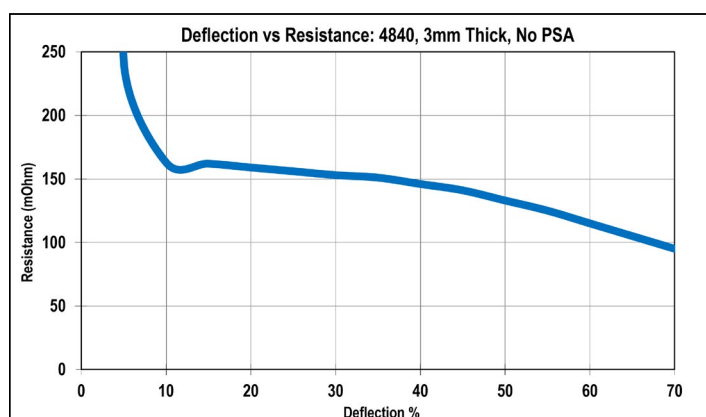


SOFT-SHIELD® 4840 PRODUCT INFORMATION

Typical Properties	SOFT-SHIELD 4840	Test Method
Shielding Effectiveness – 20 MHz to 10 GHz, dB	60	CHO-TM-TP08
Compression-Deflection – 3 mm thick sample, psi (kPa)	1.5 (10.3) @ 25% 2.0 (13.7) @ 50%	ASTM C165 (Modified)
Through-Resistance – 3 mm thick sample	(See Figure 1)	ASTM D991
Gasket Compression Set, %	<15	ASTM D3574
Tensile Strength – 3 mm thick sample, psi (MPa)	350 (2.4)	ASTM D412 (Modified)
Electrically Conductive Acrylic PSA Peel Strength, oz/in	15	ASTM D1000 (Modified to 90° peel)
Recommended % Deflection Range, %	15 - 50	--
Flammability (See UL File Number TBD)	TBD	UL 94
Operating Temperature °F (°C)	-40 to 158 (-40 to 70)	--
Recommended Storage Conditions @ 50% Relative Humidity °F (°C)	70 ± 20 (21 ± 10)	--
Shelf Life with PSA, months from date of shipment	24	--
Shelf Life (no adhesive)	Indefinite	--

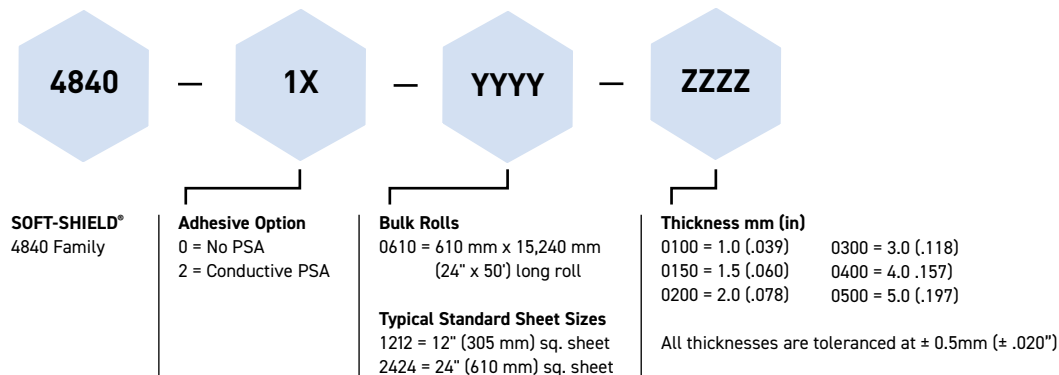
* Possible extension of additional twelve (12) months. [See Parker Chomerics Shelf Life Re-certification for Laminated Solutions document for procedure.](#)

Dimensional Tolerances	
Minimum Wall Width for Steel-Rule Die cut parts, inches (mm), 0.100 (2.54)	
Overall Die-Cut	inches (mm)
Up to 10.00 (up to 254)	±0.020 (0.51)
10.01 to 20.00 (254.3 to 508)	±0.030 (0.76)
20.01 to 30.00 (508.3 to 762)	±0.040 (1.02)
Over 30.00 (over 762)	±0.060 (1.52)
All thicknesses are toleranced at ± 0.5mm (± .020")	



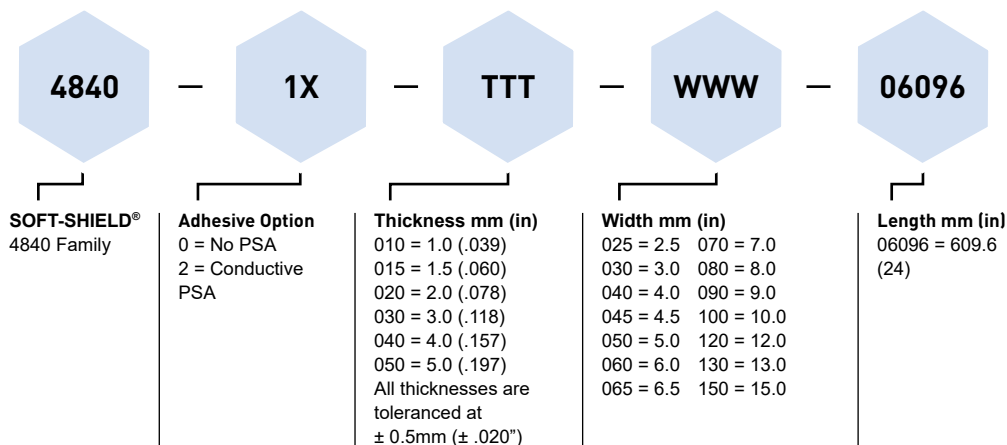
SOFT-SHIELD® 4840 ORDERING INFORMATION

Part Numbering – 50 ft long bulk rolls and sheets

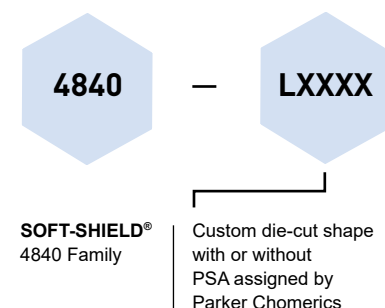


For custom die-cut parts, contact Parker Chomerics Inside Sales.

Part Numbering – Strip Gaskets



Custom Part Numbering



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 77 Dragon Court
 Woburn, MA 01801
 Phone 781 935 4850
 Fax 781 933 4318
chomailbox@parker.com
parker.com/chomerics



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CHODS1057 April 2026

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