SOFT-SHIELD® 2000 Series

SOFT-SHIELD 2000 Series Conductive Yarn over Foam EMI Gaskets

- ■ >70 dB attenuation from 20 MHz to 10 GHz
- ■ Requires <1 lb/inch (0.175 N/mm) closure force
- ■ No degradation in performance after 10,000 compression cycles
- ■ Self-terminating – simply cut to desired length
- ■ Won't crease or wrinkle in storage
- ■ <25% compression set at 50% deflection, 22 hr. at 158°F (70°C)
- ■ Pressure-sensitive adhesive for quick mounting–extended PSA release liner available
- ■ Rectangular, square or "D" profiles
- ■ Available kiss-cut on film-sheets
- ■ UL 94HB rated

Self-Terminating, Low Closure Force

SOFT-SHIELD 2000 Series gaskets consist of silver-plated nylon yarn knitted as the outer layer over a highly compressible, thermoplastic EPDM foam core. Through a special treatment process, the yarn jacket is secured to the core. This self-terminating outer layer eliminates the need for secondary termination efforts and metal particle debris associated with the cut ends of common wire mesh gaskets.

SOFT-SHIELD 2000 Series gaskets are designed specifically for use in commercial electronic enclosures and metallized plastic housings.

The low closure force characteristic of SOFT-SHIELD 2000 Series gaskets allows enclosures to be designed with fewer fasteners or thinner panels. The knitted conductive layer provides excellent EMI shielding in the 20 MHz to 10 GHz range.

Configurations: Standard SOFT-SHIELD 2000 Series gaskets include both rectangular and D cross sections. Gaskets are provided in bulk on spools or cut to custom lengths. For attachment to flanges or other mounting surfaces, these gaskets are available with pressure-sensitive adhesive for quick, efficient application. Gaskets can also be produced as spliced picture frames.
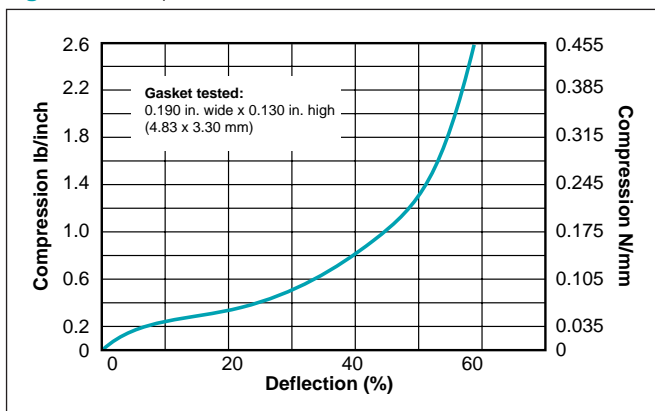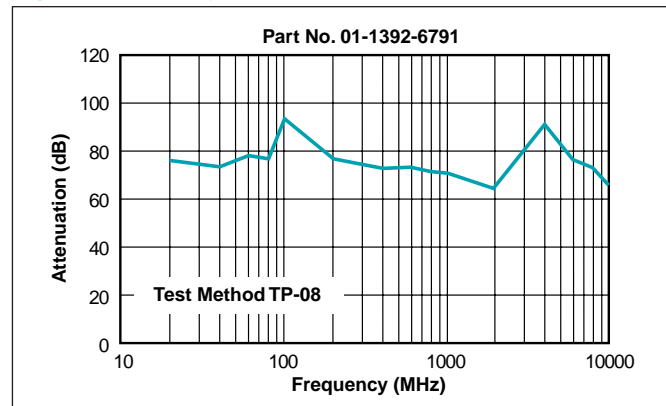
Figure 1 Compression-Deflection

Gasket tested:
0.190 in. wide x 0.130 in. high
(4.83 x 3.30 mm)

(Y-axis left: Compression lb/inch — 0, 0.2, 0.6, 1.0, 1.4, 1.8, 2.2, 2.6)
(Y-axis right: Compression N/mm — 0, 0.035, 0.105, 0.175, 0.245, 0.315, 0.385, 0.455)
(X-axis: Deflection (%) — 0, 20, 40, 60)

Figure 2 Shielding Effectiveness

Part No. 01-1392-6791

Test Method TP-08

(Y-axis: Attenuation (dB) — 0, 20, 40, 60, 80, 100, 120)
(X-axis: Frequency (MHz) — 10, 100, 1000, 10000)

CHOMERICS

Parker Seals
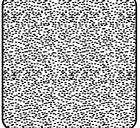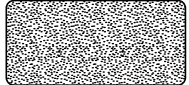
ORDERING INFORMATION

Use the following part number to order SOFT-SHIELD 2000 Series gaskets:

0 1 – 1 3 9 2 – X X X X

Note: Change the 3 to 2 if ordering gaskets without pressure-sensitive adhesive backing.

Gasket profile *(See Table 1)*

Table 1

6789	**6790**
Actual Size	Actual Size
0.130 (3.3)	0.200 (5.1)
0.190 (4.8)	0.200 (5.1)

6791	**6794**
Actual Size	Actual Size
0.250 (6.4)	0.130 (3.3)
0.250 (6.4)	0.250 (6.4)

6793	**6795**
Actual Size	Actual Size
0.375 (9.5)	0.140 (3.6)
0.375 (9.5)	0.500 (12.7)

6797	**6902**
Actual Size	Actual Size
0.250 (6.4)	0.375 (9.5)
0.500 (12.7)	0.500 (12.7)

6903	**6792**
Actual Size	Actual Size
0.100 (2.6)	0.250 (6.4)
0.140 (3.6)	0.375 (9.5)

(mm dimensions in parentheses)