Orbel’s Hi-Flex™ Fabric Over Foam EMI Gaskets are ideal for controlling electromagnetic interference. Our gaskets are manufactured from a resilient open cell urethane foam core with a durable high performance electrically conductive copper-nickel plated nylon ripstop fabric. These flexible metalized gaskets are lightweight, self-terminating when cut and exhibit low compression forces which makes them perfect for shielding seams, doors and access panels.

Orbel offers over 100 standard EMI gaskets in a wide variety of shapes and sizes to solve even the most challenging EMI shielding application. All standard profile gaskets are supplied with a double sided pressure sensitive adhesive for an easy and secure installation. We also perform many secondary modifications to our fabric over foam gaskets like cutting to length, kiss-cutting, clearance notching and miter cutting for custom frame style gaskets.

Orbel also manufactures custom Fabric Over Foam I/O Backplane and D-subminiature gaskets fabricated to our customer’s specific applications. These gaskets are constructed from a wide variety of thicknesses and die cut to accommodate the custom cutout configuration.

**MATERIAL DATA SUMMARY**

**Electrical Properties:**
- Shielding Effectiveness: >80dB attenuation 30MHz to 3GHz
- Surface Resistance: <0.05 ohms per square inch
- Volume Resistivity: 0.005– 0.017 ohms/cm

**Mechanical Properties:**
- Material Specification: Cover - Flame retardant electrically conductive copper-nickel plated nylon ripstop fabric; Foam Core - Flame retardant open cell urethane foam
- Standard Profiles: Rectangles, squares, D-shapes, bell, C-Fold, P-shapes and knife shapes
- Operating Range: 30% - 75% deflection
- Compression Force: 1-3 pounds per square inch at 50% deflection
- Temperature Range: -40 - 158 Degrees F (-40C - 70C)

**Environmental Properties:**
- Application Conditions: Good barrier against dust and air but it’s not recommended as a fluid seal
- Galvanic Compatibility: Compatible with many mating surfaces including aluminum, steel and zinc
- Shelf Life: 2 years if stored in a temperature and humidity controlled environment.

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