

ORBEL CORPORATION

Hi-Flex™ Fabric Over Foam Gaskets



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

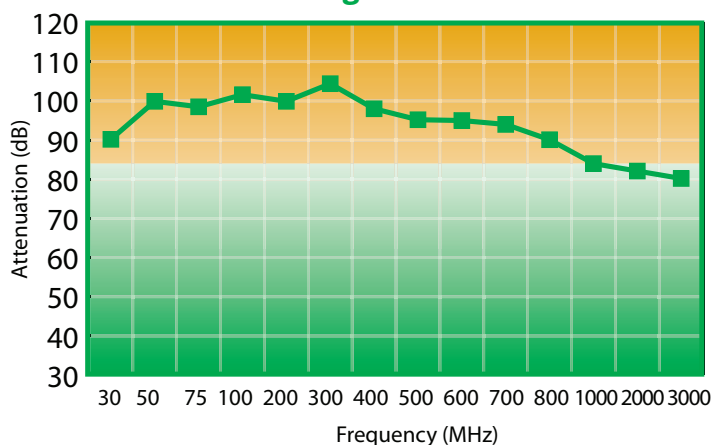
Electrical Properties:

Shielding Effectiveness: >80dB attenuation 30MHz to 3GHz

Surface Resistance: <0.05 ohms per square inch

Volume Resistivity: 0.005– 0.017 ohms/cm

Shielding Effectiveness



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)

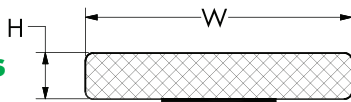
Environmental Properties:

Application Conditions: Good barrier against dust and air but it's not recommended as a fluid seal

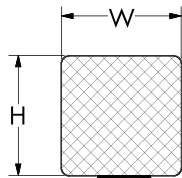
Galvanic Compatibility: Compatible with many mating surfaces including aluminum, steel and zinc

Shelf Life: 2 years if stored in a temperature and humidity controlled environment.

Rectangle Gaskets

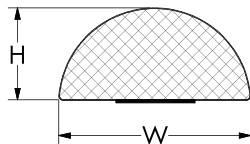


Orbel Part Number	H	W
020R196-024000	.020	.196
040R200-024000	.040	.200
040R395-024000	.040	.395
060R157-024000	.060	.157
060R394-024000	.060	.394
060R500-024000	.060	.500
080R200-024000	.080	.200
080R400-024000	.080	.400
100R375-024000	.100	.375
100R500-024000	.100	.500
125R250-024000	.125	.250
125R375-024000	.125	.375
125R500-024000	.125	.500
150R500-024000	.150	.500
160R200-024000	.160	.200
187R375-024000	.187	.375
187R500-024000	.187	.500
250R375-024000	.250	.375
250R500-024000	.250	.500
375R500-024000	.375	.500



Square Gaskets

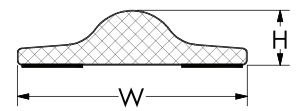
Orbel Part Number	H	W
093S093-024000	.093	.093
118S118-024000	.118	.118
157S157-024000	.157	.157
195S195-024000	.195	.195
236S236-024000	.236	.236
250S250-024000	.250	.250
375S375-024000	.375	.375
395S395-024000	.395	.395
500S500-024000	.500	.500



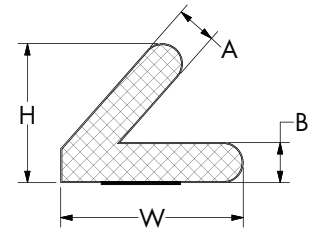
D-Shaped Gaskets

Orbel Part Number	H	W
040D150-024000	.040	.150
060D150-024000	.060	.150
060D250-024000	.060	.250
080D157-024000	.080	.157
080D394-024000	.080	.394
090D090-024000	.090	.090
100D300-024000	.100	.300
120D250-024000	.120	.250
120D360-024000	.120	.500
150D354-024000	.150	.354
187D250-024000	.187	.250
250D375-024000	.250	.375
375D500-024000	.375	.500

Bell Shaped Gaskets

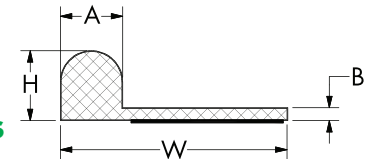


Orbel Part Number	H	W
070B180-024000	.070	.180
070B564-024000	.070	.564
080B450-024000	.080	.450
080B675-024000	.080	.675
100B300-024000	.100	.300
100B394-024000	.100	.394
120B400-024000	.120	.400
120B600-024000	.120	.600
140B500-024000	.140	.500



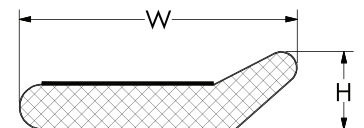
C-Fold Gaskets

Orbel Part Number	H	W	A	B
250C280-024000	.250	.280	.125	.060
315C315-024000	.315	.315	.080	.080
385C420-024000	.385	.420	.115	.060
415C450-024000	.415	.450	.135	.065
465C420-024000	.465	.420	.165	.156
675C590-024000	.675	.590	.500	.051



P-Shaped Gaskets

Orbel Part Number	H	W	A	B
118P520-024000	.118	.520	.242	.020
145P520-024000	.145	.520	.150	.020
200P480-024000	.200	.480	.170	.090
375P887-024000	.374	.887	.500	.051



Knife Shaped Gaskets

Orbel Part Number	H	W
088K445-024000	.088	.445
106K315-024000	.106	.315
106K445-024000	.106	.445
110K450-024000	.110	.450
250K750-024000	.250	.750
312K707-024000	.312	.707
350K750-024000	.350	.750