

# Max-Shield Low Impedance EMI Gasket

## FFG / AFG Series Gasket

### Definition:

FFG –Fabric cloth wrapped Foam Gasket. (upper figure)

AFG –Aluminium foil wrapped Foam Gasket (lower figure)

### Description:

Revolutionary AFG series EMI gaskets equipped with all the benefits of conventional FFG (TennVac conductive Fabric Gasket), the most important strengths of AFG are its metal-like low impedance and low cost. The automatic wrapping equipment can offer most of the desired profiles. The flexible production line also offers custom profiles in very short time, usually less than 3 days. Its standard applications include DT/NB PCs, Base Stations, Telecom enclosures, LCD Monitors.

The AFG series consists of a Reinforced Al Foil wrapped over a highly compressible urethane foam core. The durable Reinforced Al Foil has a metal-like grounding property in which offers extremely low electrical impedance than any conventional conductive fabric wrapped gaskets. The foam core usually requires less than 1 lb/in<sup>2</sup> (0.175 N/mm) closure force, making it useful for most plastic enclosures. A standard Scotch or equivalent non-conductive pressure sensitive adhesive tape (PSA) is typical selection, however, conductive PSA can be specially ordered for extreme grounding requirement.

### Features:

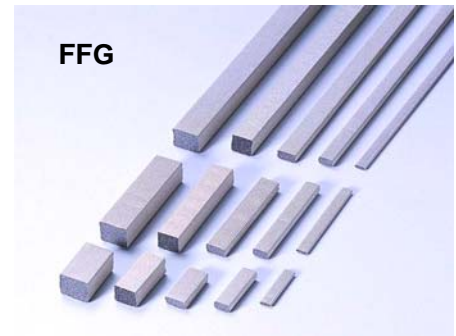
- Typically require less than 1 lb/in<sup>2</sup> (0.175 N/mm) closure force
- Self-terminating jacket - no burr or sharp edge
- Oxidation free Reinforced Al Foil
- No free falls
- Good Scratch and Ruffle resistant property
- Conductive PSA can be ordered for low impedance requirement
- > 90 dB attenuation range from 30 MHz to 10 GHz
- Wide profiles selection or custom profiles

### Benefits:

- Cost effective – Generally 15% lower than conventional conductive fabric wrapped gaskets
- Alternative to Beryllium Copper finger-stock – Due to its inherent metal-like low impedance
- Can be offered in sheet stock, kiss-cut or die-cut for back panel application
- Fast delivery

### Applications:

- Information Devices
- LCD Monitors
- Telecommunication Devices
- Medical Devices



## Configurations

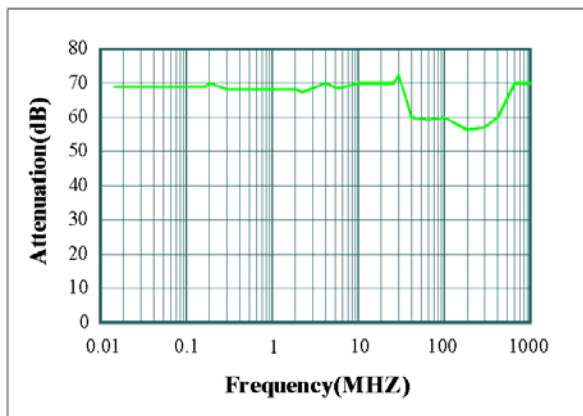
Gaskets are supplied in 1, 2 or 3 meters lengths or cut-to-length strips or die-cut configurations. Depending on profiles, gaskets can also be supplied in continuous length in spools. With its resilient structure, the AFG can be mounted on frame. Standard profiles are outlined as attached

## Typical Properties

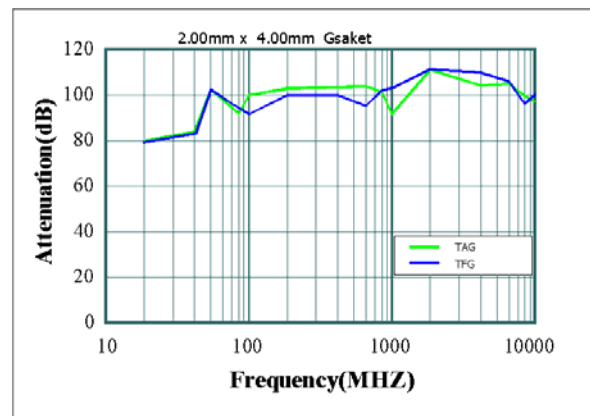
Property	Test Method	AFG Series
Electrical Conductivity	ASTM 390	< 0.03 ohm-cm
Shielding Effectiveness		> 90 dB in average
Compression Set	ASTM D3574	< 30%
PSA Peel Strength	ASTM D1000	> 1.5 Kg/25mm
PSA Resist. (Through)	ASTM 390	< 0.2 Ohm
Operation Temperature		- 30°C – + 80°C
Wrapped Gasket	UL	94V-0

Property	Test Method	FFG Series
Electrical Conductivity	ASTM 390	< 0.4 ohm-cm
Shielding Effectiveness		> 80 dB
Compression Set	ASTM D3574	< 30%
PSA Peel Strength	ASTM D1000	> 4 lb/in (0.7 N/mm)
Operation Temperature		- 30°C - + 80°C
Wrapped Gasket	UL	94 V-0

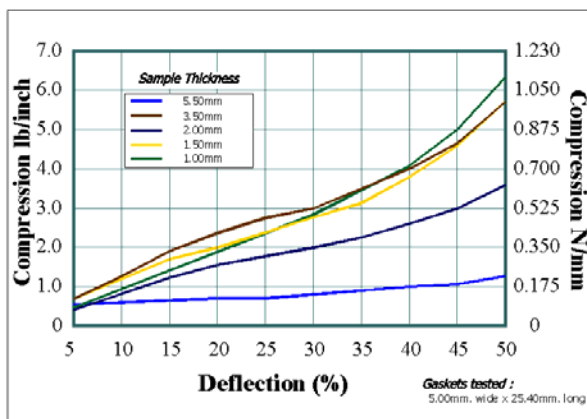
### TRANSFER IMPEDANCE



### SHIELDING EFFECTIVENESS



### COMPRESSION-DEFLECTION



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