

High temperature resistant EMI gasket



High temperature resistant EMI gasket 7100

High conductive metallized fabric HF shielding gasket with high shielding performance. Widely used in the automotive industry production up to 135 °C.

This series is a HF shielding gasket with high shielding performance and extremely low closure force. This prevents deflection of doors/parts, which improves shielding effectiveness. It is very effective in combination with stainless steel and metals. The core consists of a high-grade FUBA foam which is an EPDM foam covered with high conductive wear & tear resistant metallized fabric. This EMI gasket is used in large scale in automotive production up to 135 °C.

FUBA foam general description

FUBA foam is a semi-closed cell EPDM foam with excellent sealing properties. The semi-closed cell structure combines the flexibility of open cell types with the excellent sealing capabilities of closed cell types (after compression).

This unique foam can be laminated with advanced adhesive technology to seal (complex) gaps against water, wind, dust, noise and heat.

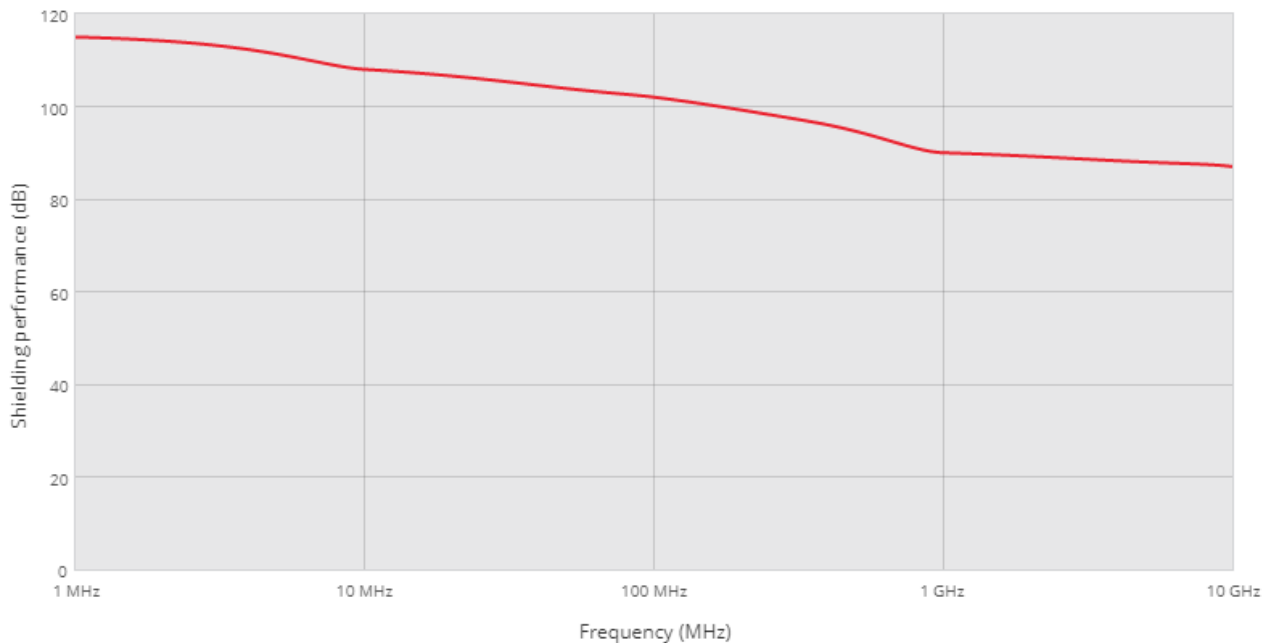
FUBA foam characteristics

Good resistance to UV, humidity, high and low temperatures and chemicals (such as acids and alkalis). The flexibility of the foam makes sure that the optimal sealing performance is obtained, even with expansion or contraction of the structure caused by temperature changes. Thanks to the low compression load the foam will never deform the structure after application.

Combined with advanced adhesive technology, the foam can be applied on greasy, rough, smooth, and low energy surfaces. No heavy metals (such as cadmium) or regulated substances (such as CFC's and halogen gases) are used during the manufacturing process nor in the product itself. FUBA foam can be disposed of by incineration.

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Please note : These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.

Features

- Semi-closed cell structure
- Good UV resistance
- Good weatherability
- Low compression load
- Very high electrical conductivity
- High shielding performance
- Roll length of 1 to 1000 meters.
(Depending on width and height of the EMI gasket)
- Easy to fit with self-adhesive
- High abrasion resistance
- Can be cut with scissors
- Because the FUBA foam series is so soft, it is easy to bend around corners

Application

FUBA foam gaskets are specially designed to seal (complex) gaps against electrical noise and heat. Depending on the applications, the EMI gasket needs to be compressed between 50-80% to activate its sealing properties.

Automotive - sealing of HVAC unit, dashboard, air duct, glass run, fire wall. *Building and construction* - sealing of exterior panel joints, solar panels. *Industrial* - sealing of air-conditioners, mobile phones, refrigerators.

Tape specification

- With standard self-adhesive placed in the middle
- Without self-adhesive
- With conductive self-adhesive
- Standard self-adhesive, asymmetrical
- Standard self-adhesive placed on the side

FUBA foam core specifications

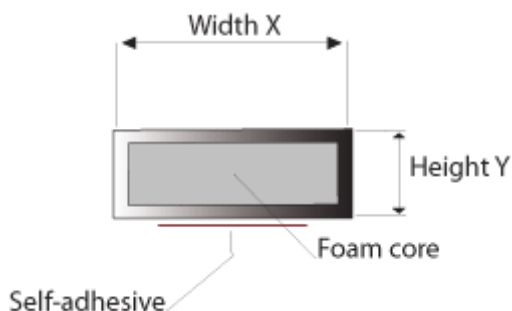
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Properties	Value	Standard
Density	95 kg/m ³	ISO 845
Thickness	3-30 mm	
Temperature - service (continuous)	-40 to 135 °C	
Compression load (50%)	5 kPa	ISO 844
Elongation	430 %	ISO 1798
Elongation - acid (1% H2SO4)	430 %	immersion at 20 °C for 7 days
Elongation - alkaline (1% NaOH)	390 %	immersion at 20 °C for 7 days
Elongation - initial	430 %	immersion at 20 °C for 7 days
Tensile strength - acid (1% H2SO4)	81 kPa	immersion at 20 °C for 7 days
Tensile strength	90 kPa	ISO 1798
Tensile strength - alkaline (1% NaOH)	77 kPa	immersion at 20 °C for 7 days
Tensile strength - initial	90 kPa	immersion at 20 °C for 7 days
Water absorption	ISO 2896	
Flammability	pass	FMVSS 302
Weatherability High deflection	excellent up to 65 %	

Ordercode

Part number	Tape code
Select your part number from the part number table above. When you need a 4 x 4 mm profile, the required part number is 7144	Select an option:
	01 : Standard self-adhesive placed in the middle
	02 : Without self-adhesive
	03 : With conductive self-adhesive (only recommended on small sizes)
	06 : Standard self-adhesive, asymmetrical
	07 : Standard self-adhesive placed on the side

Standard dimensions



Height Y (mm)	Width X (mm)									
	4	5	6	9	10	12	15	18	20	25
3	7143	7153	7163	7193	71103	71123	71153	71183	71203	71253
4	7144	7154	7164	7194	71104	71124	71154	71184	71204	71254
6			7166	7196	71106	71126	71156	71186	71206	71256
8				7198	71108	71128	71158	71188	71208	71258
9				7199	71109	71129	71159	71189	71209	71259
10					711010	711210	711510	711810	712010	712510
12						711212	711512	711812	712012	712512
15							711515	711815	712015	712515
18								711818	712018	712518
20									712020	712520
25										712525