

ECCOSORB® FGM-125

THIN, FLEXIBLE, BROADBAND, MICROWAVE ABSORBER

Description:

Eccosorb FGM-125 is thin, flexible, broadband silicone absorber. It is effective in reducing specular reflections as well as surface currents in cavity resonance applications. Silicone absorbers have high service temperature capabilities and offer advantages for high power and low out-gassing applications. They can be subjected to outdoor environments and high altitudes, including space, with no adverse effects.

Application:

ECCOSORB FGM-125 is used to line cavities in which antennas operate. It may be applied to surfaces to improve radar performance, reduce radar cross section or backscattering. ECCOSORB FGM-125 is effective in reducing specular reflections as well as surface currents due to the high magnetic loss properties.

When bonded to a metal surface Eccosorb FGM-125 will significantly reduce the reflectivity of metal objects or structures due to the flow of microwave currents on that surface. It can be applied to antenna elements, microwave dishes, the inner or outer surfaces of waveguides for isolation, attenuation or modification of radiating patterns.

Applications include power amplifiers, oscillators, down/up converters and LNB's. It is also utilized to modify antenna patterns, cover antenna feed supports, line antenna caps to reduce reflections and improve the isolation of sensitive RF devices.

Physical Properties:

Colour	brown
Dimensions (mm)	305 x 305
Nominal thickness (mm)	3.3
Weight (kg/m ²)	10.8
Hardness (Shore A)	85
Max Service Temp (°C)	218

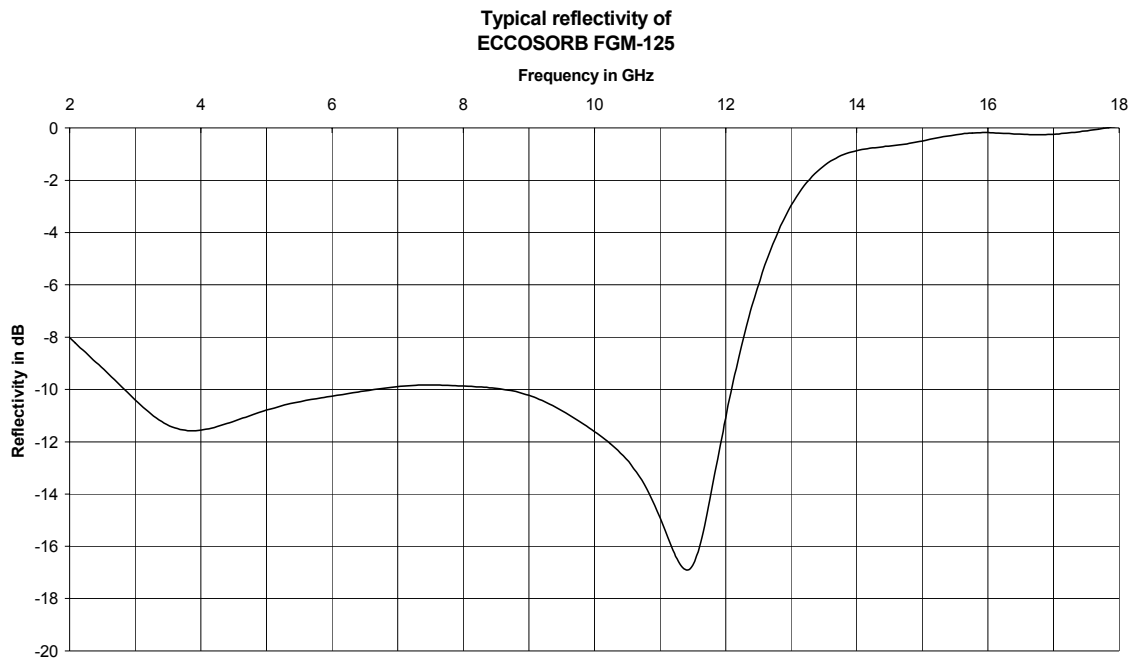
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Electromagnetic Properties:



Availability:

ECCOSORB FGM-125 is available in sheets of 305 mm x 305 mm, with a nominal thickness of 3.3mm. The product is also available in other sizes, customer specified configurations and thicknesses upon request.

Instructions for use:

Eccosorb FGM-125 is designed to function directly in front of a metallic surface.

If this is not the case, a metallic foil should first be bonded to the object.

As it is a homogeneous material, there is no distinction between its front and back face.

To obtain a strong bond of the absorber to the object, the metallic surface should be first thoroughly cleaned with a degreasing solvent.

The material can be bonded by use of an RTV silicone based adhesive in conjunction with a suitable primer.

ECCOSORB FGM-125 can be readily cut with a sharp knife and template.

It is a flexible material and will conform to mild curvatures.



Safety Considerations: It is recommended to consult the EMERSON & CUMING MICROWAVE PRODUCTS product literature, including material safety data sheets, prior to use EMERSON & CUMING MICROWAVE PRODUCTS products. These may be obtained from your local sales office.

WARRANTY: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use.

We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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