ABS-MLSE

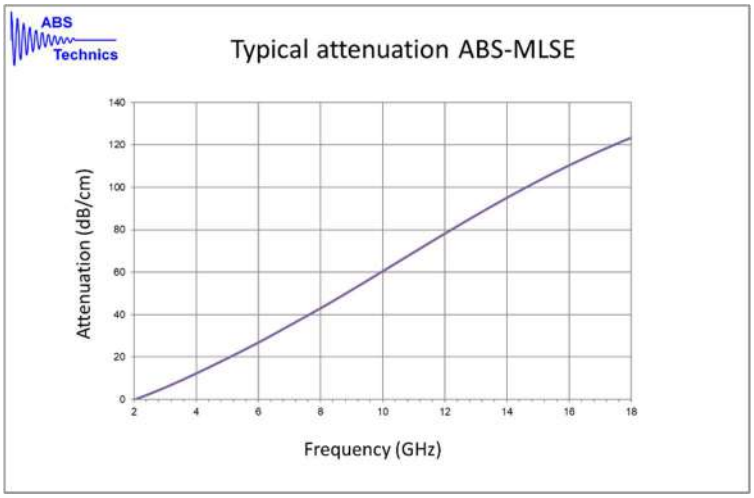
Thin flexible microwave elastomer absorber

ABS-MLSE is a thin silicone absorber with magnetic loading. The absorber is an all-round material for both broadband reflectivity applications and also the suppression of surface currents and cavity resonances applications for a very broad frequency range. The absorber sheets can be supplied with a self-adhesive backing or can be installed using an adequate liquid adhesive. Silicone material is typically used for harsh environments, high temperature applications and applications where low outgassing is a requirement.

Applications :

- Lining cavities typically to supress standing waves and surface currents.
- When bonded to a metal surface the material will reduce the reflectivity level of the metal object.
- Antenna elements are often equipped with ABS-MLSE to reduce side lobes and improve the antenna pattern
- LNB's, waveguides, amplifiers, converters and oscillators are often equipped with ABS-MLSE to improve RF-stability by improving attenuation

Specifications :



Properties :

- Frequency range : > 6 Ghz up to 60 GHz
- Hardness : 94 Shore A
- Maximum service temperature : -40°C up to 170°C.

Availability :

Standard outside dimensions are 305x305mm available thicknesses are 1 and 2mm.
Also customer specific thicknesses, sizes and shapes can be produced to suite the available space in the applications.
Typically for low outgassing applications it is preferred to bond the material using a liquid silicone adhesive, in most cases a primer needs to be applied prior to the adhesive.
By itself the material has very high mechanical strength and excellent abrasion resistance.