

ABS-HLSE

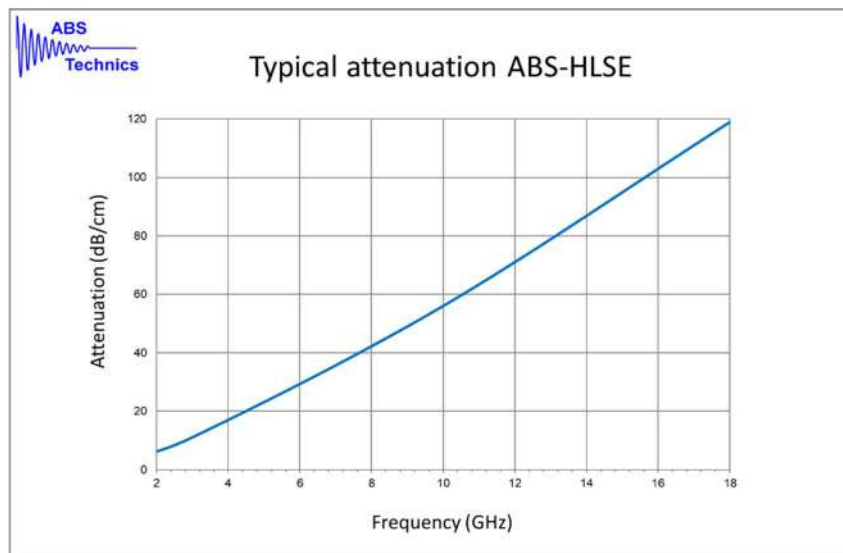
Thin flexible microwave elastomer absorber

ABS-HLSE is a thin silicone absorber with high loss properties. The absorber material is a non-conductive silicone based material designed for the suppression of surface currents and cavity resonance applications in the higher 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 suppress standing waves and surface currents, the material is not designed nor intended to be used in reflectivity mode.
- ABS-HLSE is typically installed in applications above 4 GHz.
- High frequency sensor systems, LNB's, waveguides, amplifiers, oscillators are often equipped with ABS-HLSE to improve RF-stability.

Specifications :



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Properties :

- Frequency range : > 4 GHz
- Hardness : > 70
- Maximum service temperature : -40°C up to 170°C
- Elongation : 50%

Availability :

Standard outside dimensions are 305x305mm available thickness is 0.5mm..

Also customer specific thicknesses, sizes and shapes can be produced to suite the available space in the applications..

If required the absorber sheet material can be supplied with a self-adhesive backing.

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 adhesive.

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