ABS-SSB

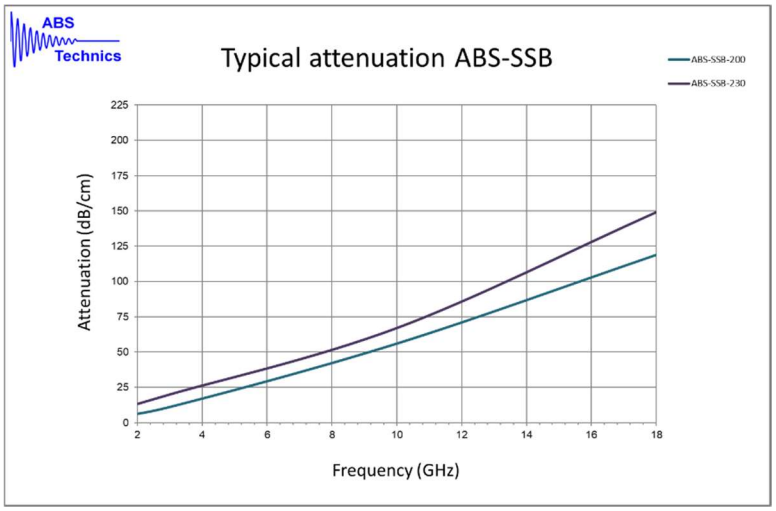
Machinable silicone based microwave absorber

ABS-SSB is available as a silicone based magnetically loaded microwave absorber.
The absorber material is typically supplied as sheets or bars with different dimensions. The standard stock material is typically used for machining specific 3D-shapes.
Two different grades are available, ABS-SSB-200 and ABS-SSB-230, the products are typically used in respectively high- and low frequency applications.

Applications :

- ABS-SSB is used as finished or customised parts in many RF-applications such as terminators in waveguides end sections and as attenuators on waveguide walls, on strip lines and in cavities
- Due to its excellent absorber properties ABS-SSB can also be used to supress surface currents on antenna array elements, shape and type of grade are very important.

Specifications :



Properties :

- Frequency range : > 4 GHz
- Maximum service temperature : -40°C up to 170°C
- Density : 3,5 - 4,8 g/cc
- Hardness : 70 Shore A
- Elongation : 50%

Availability :

As shown on the above graph ABS-SSB is available in two different grades.
In function of its grade for a similar thickness, performance will evolve linearly with the frequency.
Standard available shapes are sheets and bars . Flat sheets are available with dimensions 305x305mm and thickness between 6mm and 75mm. Bars can be supplied to different sections, maximum available lengths are 305mm.
Specific customized 3D shapes can be produced on request to customer drawings.