

ABS-NBE series

Flexible frequency tuned microwave absorber

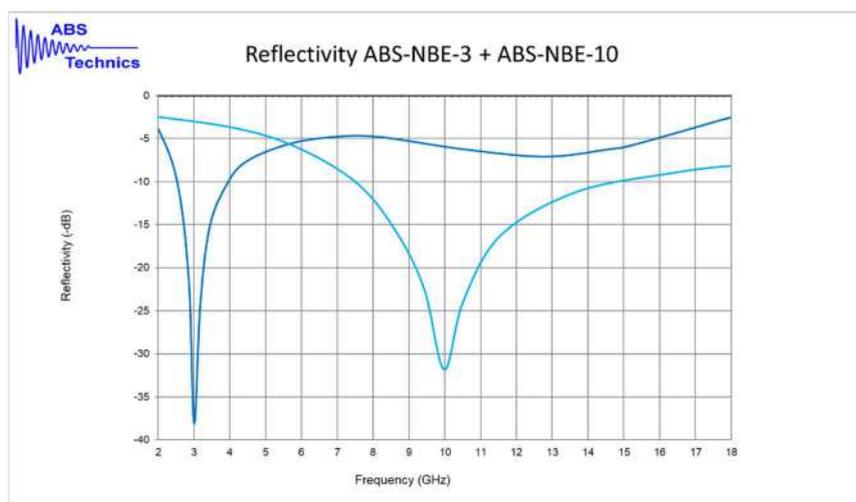
ABS-NBE absorbers are a range of single frequency tuned microwave absorbers. Tuned absorbers or resonant frequency absorbers are produced for specific frequencies and a narrow frequency band. The resonance or the absorbers reflectivity performance at the discrete frequency is obtained by installing the absorber sheet on a metal background.

Applications :

- ABS-NBE is produced for a range of frequencies from 1 to 26 GHz.
- Typically used in free space applications with respect to far field conditions.
- Lining of metal structures.
- Treatment of specific frequencies.
- RCS (radar cross section) reduction
- Occasionally ABS-NBE is also used to suppress surface currents and cavity resonances.

Specifications :

The absorber is designed to obtain a reflectivity level of -20 dB at the given specific frequency. Related to the frequency of operation ABS-NBE is produced in different thicknesses, typically between 1 and 4mm.



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Properties :

Thin and flexible absorber sheets based on a polyurethane or silicone rubber (ABS-NBSE).

Max. service temperature : 120°C

Hardness (shore A) : 80

Density (g/cc) : 2,5 to 4

Availability :

Standard outside dimensions are 305x305mm, other sizes and specific customized shapes are available on request such customized parts can be delivered die-cut or kiss-cut.

The polyurethane based material can be supplied equipped with a self-adhesive tape.