

## ABS-FLE

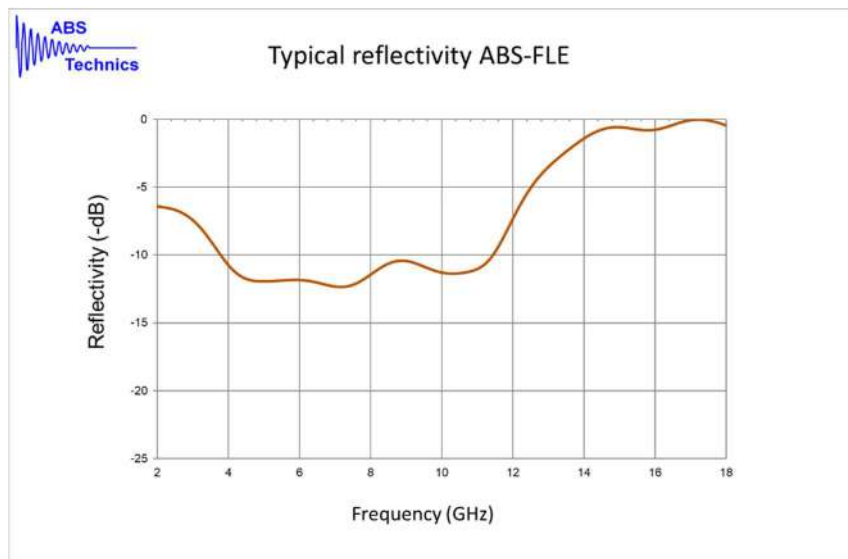
### Flexible microwave elastomer absorber

ABS-FLE is a thin urethane absorber with magnetic loading. The absorber is applied in the lower frequency range for reduction of reflections but also for the suppression of surface currents and cavity resonances applications. The urethane based material is easy in bonding. For harsh environments and high temperature applications we recommend to select the silicone version type ABS-FLSE.

#### Applications :

- ABS-FLE is often used to line the housing of antenna systems, the absorber material will suppress both 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-FLE to improve the antenna pattern.

#### Specifications :



#### Properties :

- Frequency range : 1 Ghz up to 12 GHz
- Hardness : 90 Shore A
- Maximum service temperature : -40°C up to 120°C.

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**Availability :**

Standard outside dimensions are 305x305mm available thicknesses are 1, 2 and 3mm.

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

The urethane version assures a good and easy bonding process using self-adhesive tape.

By itself the material has very high mechanical strength and excellent abrasion resistance.

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