

## ABS-STB-TPE

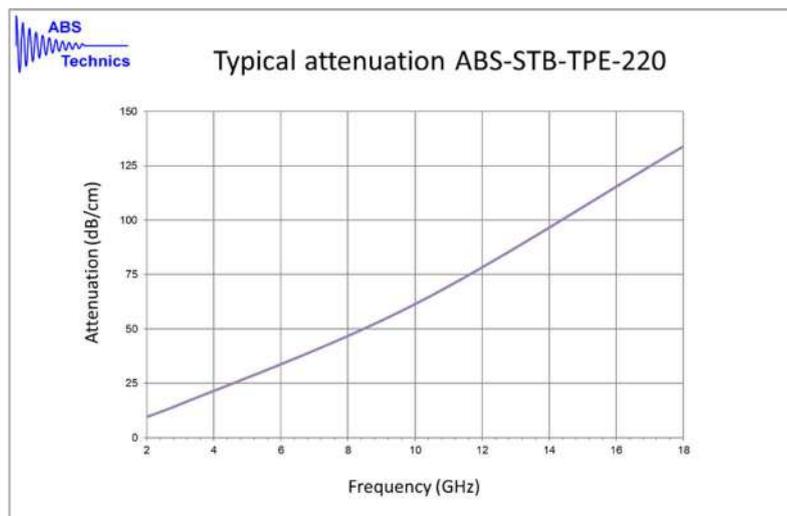
### Thermoplastic based microwave absorber

ABS-STB-TPE is a thermoplastic based magnetically loaded microwave absorber, intrinsically comparable with the resin based product ABS-SRB . The material is based on a flexible thermoplastic which is modified with a specific magnetic loading to obtain a balanced product with excellent mechanical and RF-properties. ABS-STB-TPE can be applied in a wide range of applications and in a broad frequency range.

#### Applications :

- ABS-STB-TPE are finished 3D shaped parts, ready for installation in a variety of RF-applications.
  - ABS-STB-TPE products are typically used as RF-terminations in waveguide systems.
  - Also on circuit board level 3D shaped covers or inserts can be produced.
- In case ABS-STB-TPE material is used as RF-absorber it will also show shielding effectiveness related to the wall thickness of the product and the operating frequency.

#### Specifications :



#### Properties :

- Frequency range : > 1 GHz – 60 GHz
- Maximum service temperature : 80°C
- Density : 4,2 g/cc
- Hardness : 60 Shore A

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**Availability :**

ABS-STB-TPE is available as 3D-shaped injection moulded products, the compound itself is not available. All products are well designed to allow injection moulding and to meet customers mechanical and RF-requirements.

ABS-STB-TPE is available as injection moulded products, produced as complex 3D shapes in a cost effective manner.

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