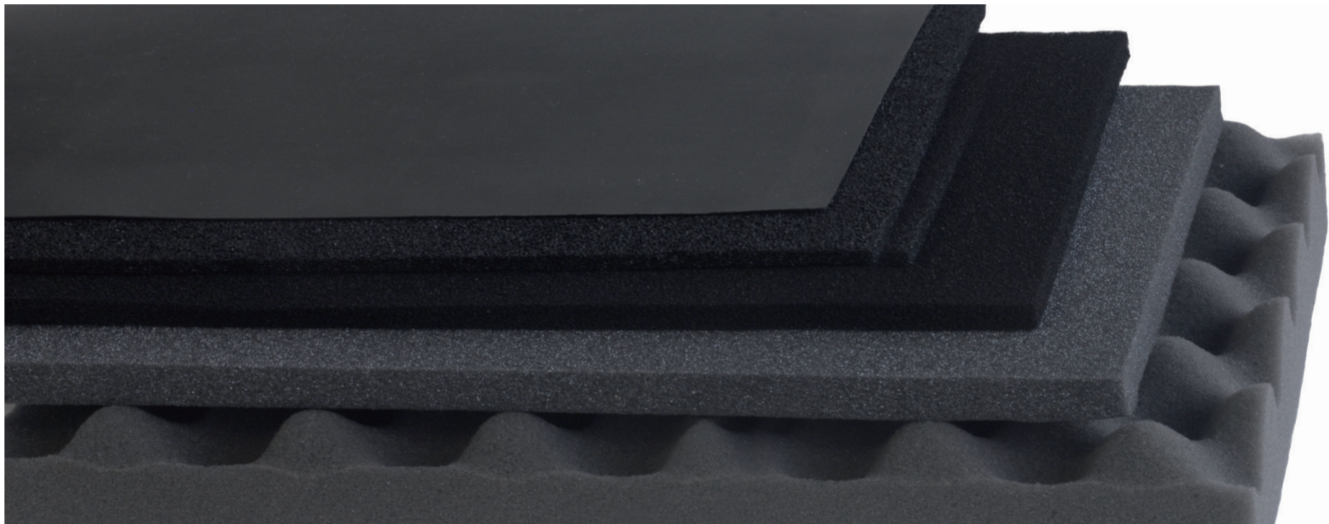


MICROWAVE ABSORBER FOAM 3500

Used at higher frequencies than traditional shielding and can also be used with other EMI/RFI shields to extend frequency range



These absorbers can be used at higher frequencies than traditional shielding and can also be used with other EMI/RFI shields to extend frequency range.

The microwave absorbers can be installed easily with pressure-sensitive adhesive (PSA), often directly onto high-frequency board-level components, to absorb unwanted radiated and surface-wave EMI/RFI and to meet FCC requirements without shielding.

Our 3500 series Microwave absorber foam is RoHS compliant. It is a coated, open-cell foam and is used as a microwave absorbing material, especially for applications with frequencies of **1 to 17 GHz**. The product acts like a free-space resistor to incoming electromagnetic energy.

The 3500 series Microwave absorber foam is available in a **soft** and a **hard** variant. The type you choose depends on the force you want the foam to be able to withstand, if necessary.

Microwave absorber products can solve EMI/RFI problems without additional shielding and enable advanced technologies including automotive radar, military, and commercial wireless applications.

MICROWAVE ABSORBER FOAM, SOFT VERSION Standard sheet

Temperature specification: - 40°C to +100°C

Hardness shore: 40 +/- 20

TYPICAL APPLICATIONS

- Antenna hats
- Test boxes
- PCB shielding/housings
- Military applications
- EMI reduction
- Antenna pattern shaping
- Radar cross reduction

VERSIONS

- A **soft version** which can be easily compressed to 75% is available as die cut or in the form of sheets. The soft microwave absorber sheets are available with thicknesses of 3, 6, and 15mm and with or without PSA. (Pressure-sensitive adhesive).
- A **hard version** which can carry more weight and keeps its shape and position more easily is available with a thickness of 6mm. Other thicknesses are available on request.

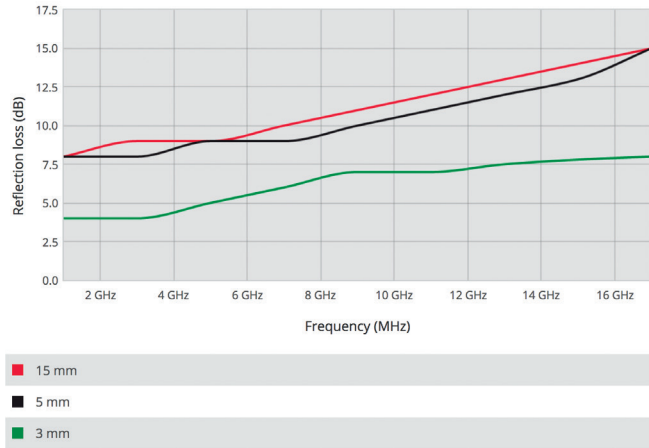
PRODUCT SPECIFICATIONS

Property	ISO	Unit	IP 45
Density	845	Kg/m ³	42- 48
Tensile strength	1798	kPa	298-337
Elongation strength	1798	%	30- 41
Compression deflection strength	844	kPa	
25%	844	kPa	55- 75
50%	844	kPa	123- 145
24h	1856	%	6.0
Working temperature range	-	Celsius	-60/+80
Thermal conductivity at 0 °C	8301	W/mK	0.04
Water absorption 7 days	-	Vol. %	<1
Flammability	FMVSS302	-	Pass
Surface resistivity	IEC-61340	Ohm	10 ^{^7}



» MICROWAVE ABSORBER FOAM 3500

REFLECTION LOSS



PART NUMBER EXAMPLES

Part number	Features
3500 (soft version)	Max. sheet size 1000 x 1000 mm.
3501 (hard version)	Max. sheet size 555 x 355 mm

ORDER EXAMPLE

Part number	Width (mm)	Length (mm)	Thickness	Adhesive
3500 : Soft EM absorber foam 3501 : Hard EM absorber foam	Specify the width in mm. Max. 1000mm	Specify the length in mm. Max. 1000mm	3 : 3 mm thick (soft) 6 : 6 mm thick (soft) 15 : 15 mm thick (soft) 6 : 6 mm thick (hard) 12 : 12 mm thick (hard)	PSA : With pressure sensitive adhesive NA : No adhesive

