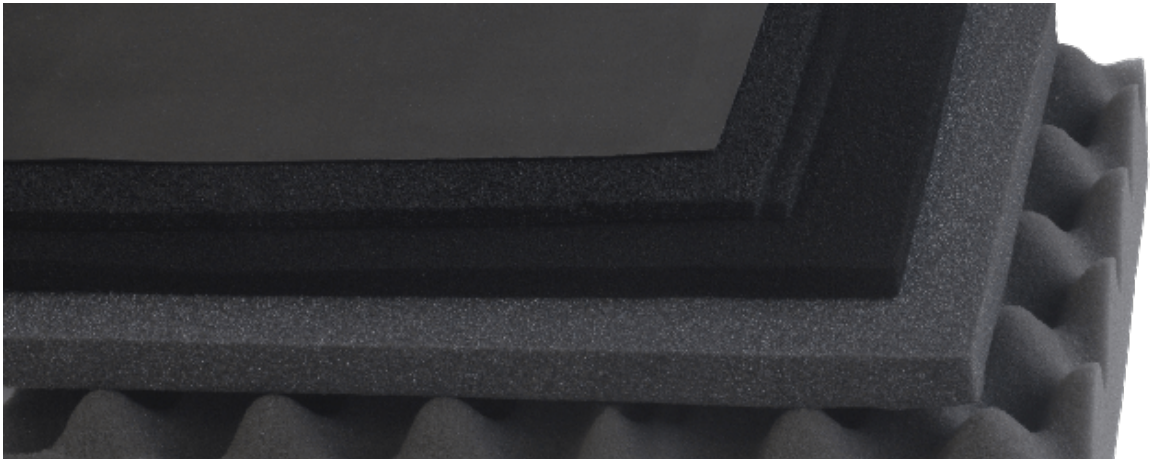


Microwave absorber foam



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 (3500)** and a **hard (3501)** 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.

Part number examples

Part number	Features
3500/3501-555-355 or 3500/3501-355-255	Standard sheet size: 555x355 mm or 355x255 mm
3500/3501-x-x	Foam customized settings Max. sheet size 1000x1000 mm

Typical applications

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

Versions

- A **soft** version (3500) 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, 5, and 15 mm and with or without PSA (pressure-sensitive adhesive).
- A **hard** version (3501) which can carry more weight and keeps its shape and position more easily is available with a thickness of 6 mm. Other thicknesses are available on request.

Microwave absorber foam

Microwave absorber foam, soft version

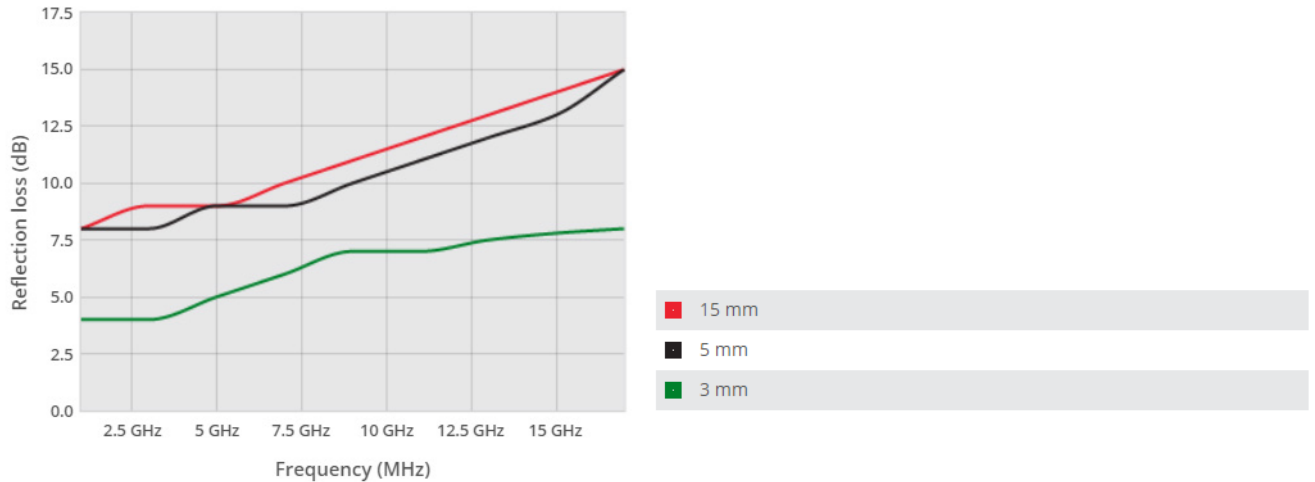
Standard sheet

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

Hardness shore: 40 +/- 20

Die-cut: Material can be cut into any shape according to customer's drawing. For a quote, please send a drawing with the desired quantities to info@infracron.de

3500 series - Reflection loss



Please note: These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.

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		Celcius	-60/+80
Thermal conductivity at 0 degrees Celcius	8301	W/mK	0.04
Water absorption 7 days		Vol. %	<1

Series	Width (mm)	Length (mm)	Thickness	Adhesive
Select an option: 3500 : Soft EM absorber foam 3501 : Hard EM absorber foam	Specify the width in mm. 3500 max. 1000 mm 3501 max. 555 mm	Specify the length in mm. 3500 max. 1000 mm 3501 max. 355 mm	Select an option: 15 : 15 mm thick (soft) 6 : 6 mm thick (soft) 3 : 3 mm thick (soft) 12 : 12 mm thick (hard) 6 : 6 mm thick (hard)	Select an option: PSA : With pressure sensitive adhesive NA : No adhesive

* Note: The red blocks are required