

4706 - Amucor foil with reinforcement net

Many EMI problems can be solved easily by the use of Amucor foil or tape. When there is a very broad and strong shielding foil required, than our 4706 Amucor foil with reinforcement net can provide the solution. The shielding foil can be produced with or without (conductive) self-adhesive and an optional insulation layer.

Amucor foil with reinforcement net can be cut to any width and can be delivered from stock. The most commonly used width is 1000 mm. Standard roll length is 16.5 meters.

Amucor foil with reinforcement net can also be deliver as die-cut, according to your drawing, on strip or in pieces (as a sticker), with optional self-adhesive.



Amucor foil with reinforcement net for EMI/RFI shielding

Applications

- EMI shielding of plastic enclosure parts (EMI/RFI shielding tape/gasket)
- Shielding all non-conductive materials
- Ground plane
- Antistatic floor (ESD floor)
- Electrical connection between surfaces (sheets / foils)
- Die-cuts
- Shielding in housings and Faraday cages
- Temporary shielding during tests
- Mounting transparent foils, windows for EMI/RFI shielding
- Cable shielding (Wrap around the cable)
- Temporary shielding during emission and immunity tests

Options

- Fire-retardant version
- With (conductive) self-adhesive backing
- With insulation layer
- Die-cutting in any shape according to CAD drawing



We can cut all our EMI/RFI shielding tapes to any specific width

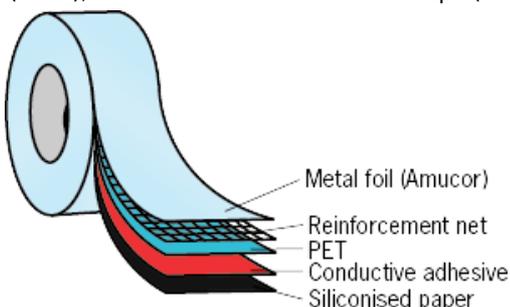


With our automated CNC cutting system, we can cut Amucor foil in large quantities and according to your CAD drawing

Amucor foil with a reinforcement net (4706)

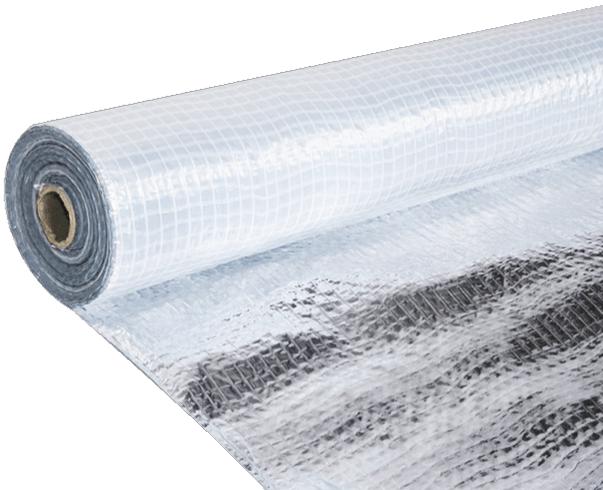
Amucor foil can also be produced with a strengthening reinforcement net. Because the material with the reinforcement net is so strong, it can be produced in a very large width of 3100 mm. This material is designed to cover walls and floor for protection against unwanted radio frequencies (RF). The material can also be used to very quickly create a shielded room, for example from a wooden box.

Amucor foil with a reinforcement net can be produced as a foil (4706) without self adhesive but can also be produced as tape (4707), with standard adhesive or as tape (4708) with conductive adhesive.



4706 - Amucor foil with reinforcement net technical drawing

4706 - Amucor foil with reinforcement net



4706 - Amucor foil with reinforcement net example image

Shielding performance

In the table below you will find the shielding characteristics of Amucor foil.

There are many factors that influence the true effectiveness of a EMI/RFI shielding tape when applied, such as type and thickness of foil, type of adhesive, closeness of contact, smoothness of application surface, strength and frequency of the EMI/RFI signal, etc. Still, an attenuation value can be determined using standard tests and fixtures.

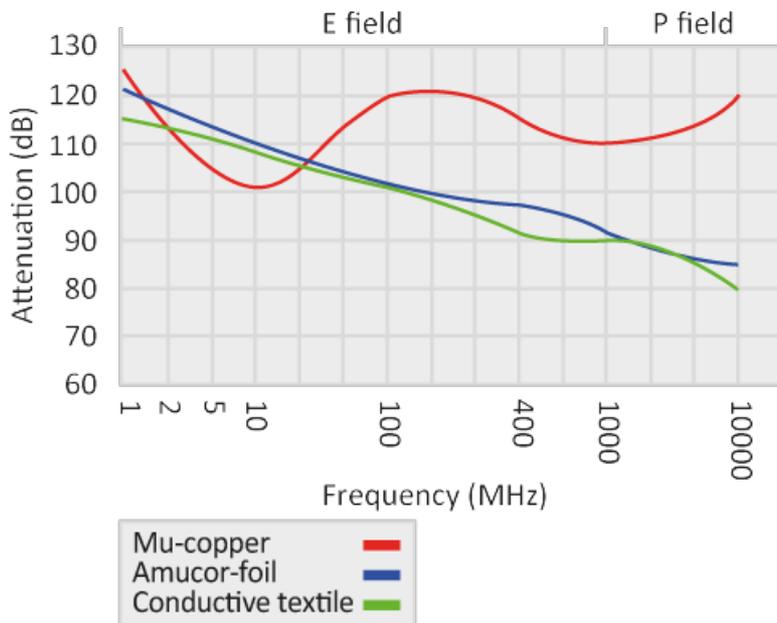
For Amucor tape, typical shielding effectiveness (far field) is in the range of 60dB to 80dB (10 KHz to 20 GHz).

For more specifications see table and graph below.

Field	Frequency	Amucor-foil
0.04 mm thick		
E	1 MHz	121 dB
E	10 MHz	110 dB
E	100 MHz	103 dB
E	400 MHz	98 dB
P	1 GHz	92 dB
P	10 GHz	85 dB

*These values are measured under laboratory conditions.
In your situation results may differ, please read our Guarantee.*

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EMI / RFI shielding tapes attenuation graph

Technical specification and part numbers

Part number (As foil, without adhesive)	4701	4716	4706
Part number (Tape, with standard adhesive)	4702	4717	4707
Part number (Tape, with conductive adhesive)	4703	4718	4708
Part number (As foil, with insulation layer (UL94V-0) 0.15 mm (white))	4704	4719	4709
Part number (As foil, with insulation layer (UL94V-0) 0.22 mm (black))	4705	4720	4710

Construction			
Foil material	Amucor	Amucor and PET	Amucor with a reinforcement net
Surface	bright	bright	bright
Foil thickness	0.023 mm	0.35 mm	-
Total thickness	0.048 mm	0.3725 mm	-
Adhesive	synthetic conductive resin	synthetic conductive resin	-
Adhesive performance	4.5 N/cm	4.5 N/cm	-
Tensile strength	-	-	-
Temperature resistance	-	-	-
El. resistance through adhesive	0.003 Ohm	0.003 Ohm	0.003 Ohm
When tape, standard roll widths (mm) *	10, 25, 50, 100	10, 25, 50, 100	10, 25, 50, 100
When foil, standard foil widths (mm) *	1100	1100	3100
Roll lengths*	16.5 m	16.5 m	100 m

*These values are measured under laboratory conditions.
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* Other on request