YSHIELD® M6L-9X | Six-layer magnetic field shielding film laminated | Width 90 cm | 1 Meter

Our proven six-layer film as roll material with a length of 18 running meters for large areas. 20-33 dB shielding at 50 Hz.

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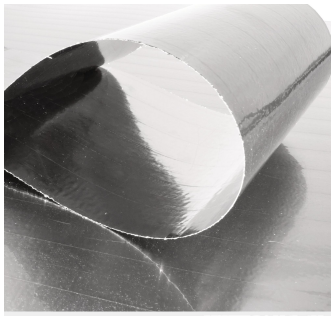

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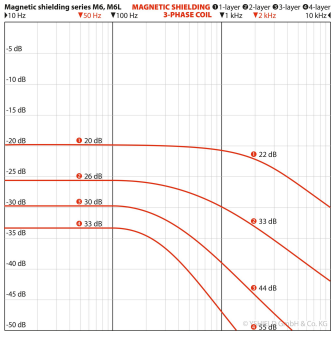

M6L-9X is a magnetic field shielding film for shielding low frequency magnetic fields. Highly resistant with laminating film on both sides, suitable as an intermediate layer in roof or floor constructions. Single-layer processing has the best price/performance ratio, for higher magnetic flux densities, multi-layer processing is required. For this product, we have **connected 6 very thin shielding foils together**, because several thin layers provide better shielding than one thick sheet. **Despite the many layers with only 0.4 mm super thin!**

It is suited for **small surfaces in a domestic environment**, as well as for **large surfaces in construction, trade or industry**. Additionally there are various application possibilities in **cars, electric vehicles, vans, mobile homes, campers**.

Technical data

- **Width: 90 cm (Shielding surface)**; 94 cm (total product)
- **Length: Available by the meter** / 18 meter rolls
- Thickness: 0.4 mm
- **Attenuation magnetic fields (Three-phase 50 Hz): Single-layer 19.5 dB (89.4 %), two-layer 25.7 dB (94.8 %), three-layer 30.2 dB (96.9 %), four-layer 32.6 dB (97.7 %)**
- Attenuation magnetic fields (Single-phase 50 Hz): Single-layer 17.7 dB (87 %), two-layer 23.2 dB (93.1 %), three-layer 26.8 dB (95.4 %), four-layer 29.3 dB (96.6 %)
- Attenuation magnetic fields (Static): DC consumers, earth magnetic field, permanent magnets are shielded in a range from 15 % (single-layer) to 58 % (four-layer)
- Minimum bending radius: 20 cm
- For reasons of innovation, we do not declare ingredients and magnetic key figures. **The high-tech material has a high initial permeability and high saturation induction from 5 Hz**.

Processing

Attention: The M6L-series can be cut with high-quality scissors! The cutting edges are very sharp and need to be protected (e.g. with fabric tape) immediately after cutting! Use cut-resistant gloves during processing! We recommend planning the installation of the plates in a way that you do not have to cut them! Pay attention with larger wall spaces that the plates are a water vapour barrier. **Processing with adhesive:** Only a few adhesives can bond laminating film made of PET (polyethylene terephthalate). For secure bonding, we recommend our acrylate-based **PSA adhesive**, which produces permanently self-adhesive layers. For wet bonding, work quickly and on small areas, then corrections can still be made. Non-absorbent substrates or multiple layers can be problematic because the solvent cannot dry out due to the vapor-tight film! With dry bonding, you have an immediate, very strong adhesion that can no longer be removed. **Application using a stapler or nailer:** If the substrate is suitable, we recommend using an electric stapler or nailer. For one layer including overlap, a medium-priced electric tacker is sufficient; for two or more layers, you will need a professional nailer. The shielding surface must overlap by at least 2 cm. **Multilayer installation**: Always install the plates in an offset position - the surface is to cover the overlapping underneath.

Laboratory & expert report

We have already invested in our **own professional EMV laboratory** years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an **independent, well-respected expert**. Double checked for twice the safety. **Please find the reports above at the downloads**.

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