

ISO 325

TRANSPARENT SELF-ADHESIVE ELECTROMAGNETIC SHIELDING FILM



GENERAL DESCRIPTION

ISO 325 is a transparent multi-alloy self-adhesive film designed to effectively reduce the penetration of electromagnetic waves through glazing, while preserving brightness and visual clarity.

CHARACTERISTICS

- Measured attenuation: 47 dB at 13.56 MHz (according to IEEE 299).
- Electromagnetic field reduction: up to 90%.
- Reliable and consistent high-frequency attenuation over time.
- Appearance: light champagne, discreet and uniform.
- High transparency, ensuring optimal light transmission.

TYPICAL APPLICATIONS

- Glazing isolation from RFID waves.

KEY BENEFITS

- Easy to apply: self-adhesive film suitable for existing glazing.
- Proven efficiency: certified reduction of electromagnetic waves.
- Long-term reliability: stable performance over time.

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ELECTROMAGNETIC PERFORMANCE

- 700 MHz : 21,3 dB (90 %).
- 900 MHz : 24,3 dB (90 %).
- 1 GHz : 24,8 dB (90 %).
- 2 GHz : 24,3 dB (90 %).
- 3 GHz : 22,8 dB (90 %).
- 5 GHz : 17,5 dB (87 %).

OPTICAL AND ENERGY PROPERTIES (GLASS + FILM)

Solar energy (EN 410): rejected single glazing 50 %, double glazing 45 %, IR rejection (760-2500 nm) \pm 70 %, reflection 27 %, absorption 26 %, transmission 45 %.

Light transmission (EN 410): visible light 70 %, perceived interior brightness \pm 85 %, exterior light reflection 7 %, glare reduction 30 %, UV rejection 99 %.

Thermal coefficient (EN 673): solar factor (G-value) 0.50, Ug-value 4.90 W/m²K, shading coefficient 0.50.

TECHNICAL SPECIFICATIONS

- Fire rating: M1.
- EN 1096-1 standard (building glass): laboratory tested.
- REACH & RoHS standards: compliant.
- Exterior tint: medium champagne.
- Thickness: 40 μ m.

GLAZING COMPATIBILITY

- Single glazing: clear, tinted, reflective.
- Double glazing: clear, tinted, reflective, gas-filled*, Stadip Int., Stadip Ext.*

*Caution on glazing > 2.5 m² or partially shaded - please consult us.

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1. FILM CUTTING

- Pre-cut the film, leaving a margin of about 2 cm on each side.
- Use new blades and replace them frequently to ensure a clean cut, making overlaps or edge-to-edge joints easier.

2. GLASS PREPARATION

- Carefully clean the glass with a non-detergent product.
- Remove any dirt with a scraper.
- Check that no dust or hair remains.
- Dry corners thoroughly with absorbent paper.

3. APPLICATION SOLUTION PREPARATION

- Use only demineralized water.
- Mix with our recommended product or Mixa Bébé (½ cap per liter) to temporarily neutralize the adhesive.
- In winter, add 20 to 30% alcohol (70°) to prevent freezing.
- Do not install below 5 °C.

4. REMOVAL OF PROTECTIVE LINER

- Stick two pieces of adhesive tape on one corner (one on each side) and gently pull to separate the liner from the film.

5. APPLYING THE FILM

- Spray an adjacent glass pane and position the film (adhesive side facing the installer).
- Gradually spray the solution on the adhesive surface as the liner is removed.
- Generously spray the target glass, flip the film and position it without pinching the corners with your fingers.
- Lightly press the center with your hand to hold it in place.
- Check alignment and margins.
- Spray the film surface again.

6. SQUEEGEEING

- Ensure the film surface is well moistened.
- Push the liquid ahead of the squeegee blade (never pull).
- Start from the center, then move right and left, working from top to bottom.
- Absorb expelled liquid regularly with absorbent paper.
- Trim excess film, leaving 1-2 mm along the frame.
- Repeat squeegeeing with maximum pressure to expel as much water as possible.
- Carefully dry all edges.

7. DRYING

- Small water bubbles may appear: do not pierce them, they will disappear naturally after full drying.