

ISO 771

TRANSPARENT RFID SHIELDING FABRIC



GENERAL DESCRIPTION

ISO 771 is a transparent technical fabric made of conductive mesh, designed to effectively block RFID signals. Its transparency preserves visibility while ensuring a high level of electromagnetic protection.

CHARACTERISTICS

- High-quality conductive mesh.
- Transparency for discreet and seamless integration.
- Lightweight, flexible, and easy to apply.
- Compatible with various electromagnetic environments.

TYPICAL APPLICATIONS

- Partitioning of spaces requiring RFID shielding while maintaining visibility.
- Fitting room or separation curtains in retail environments.
- Removable or temporary shields for sensitive areas.
- Integration into textile-based electromagnetic shielding systems.

KEY BENEFITS

- Effective and durable protection against RFID signals.
- Versatile use (fixed or removable).
- Discreet and seamless integration thanks to transparency.
- Simple and quick installation.

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PRODUCT DESCRIPTION

ISO 771 is a conductive fabric obtained by metallization (chemical plating and electrodeposition) on pretreated polyester fiber cloth. This process provides the material with conductivity and electromagnetic shielding properties. The fabric can also be laminated with polyurethane foam using hot-melt adhesive.

PRODUCT STRUCTURE

Polyester fabric + metallic shielding layer.

PERFORMANCE

- Low impedance and strong electromagnetic performance.
- Good rigidity and easy die-cutting.
- Dust-resistant properties.

TECHNICAL SPECIFICATIONS

- Transparent mesh.
- Thickness: 0.09 ± 0.01 mm (ASTM D3652).
- Density: 120 ± 10 T (ASTM D3775).
- Surface resistance: $\leq 0.1 \Omega$ (ASTM F390).
- Z resistance: $\leq 0.03 \Omega$ (Saintyoo method).
- Shielding effectiveness: ≥ 60 dB (10 MHz - 3 GHz, SJ20524-1995).
- Metal adhesion: grade ≥ 4 .
- Standard width: 1,100 mm.

MAIN TEST METHODS

1. Surface resistance (Ω).
2. Z resistance (Ω).

APPLICATION FIELDS

- RFID shielding.
- Semi-finished product for lamination with polyurethane foam and hot-melt adhesive.

STORAGE AND SHELF LIFE

- Optimal use within 24 months.
- Recommended storage: $6^\circ\text{C} \sim 34^\circ\text{C}$, $\text{RH} \leq 65\%$, in original packaging.

RECOMMENDATIONS

An adaptability test should be carried out before use.

The company shall not be held liable for direct, indirect, or accidental damages resulting from improper use.