Tape AL-36FR

Polyester Film-Laminated Aluminum Foil with Conductive Acrylic Adhesive

Data Sheet

Product Description

3M™ Tape AL-36FR consists of polyester film-laminated aluminum foil and unique electrically conductive pressure-sensitive acrylic adhesive.

- PET-laminated aluminum foil backing
- Conductive acrylic adhesive
- Supplied on a removable liner for easy handling and die cutting
- UL recognized for flame retardancy per UL 510, Product Category OANZ2, File E166244.

3M Tape AL-36FR is available in standard and custom widths and lengths. Standard length is 100 m.

- Widths from 6 mm to 500 mm
- Longer lengths up to several times normal length, dependent upon width. Check with a 3M sales representative.

Applications

3M Tape AL-36FR is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing and for insulation on top of the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

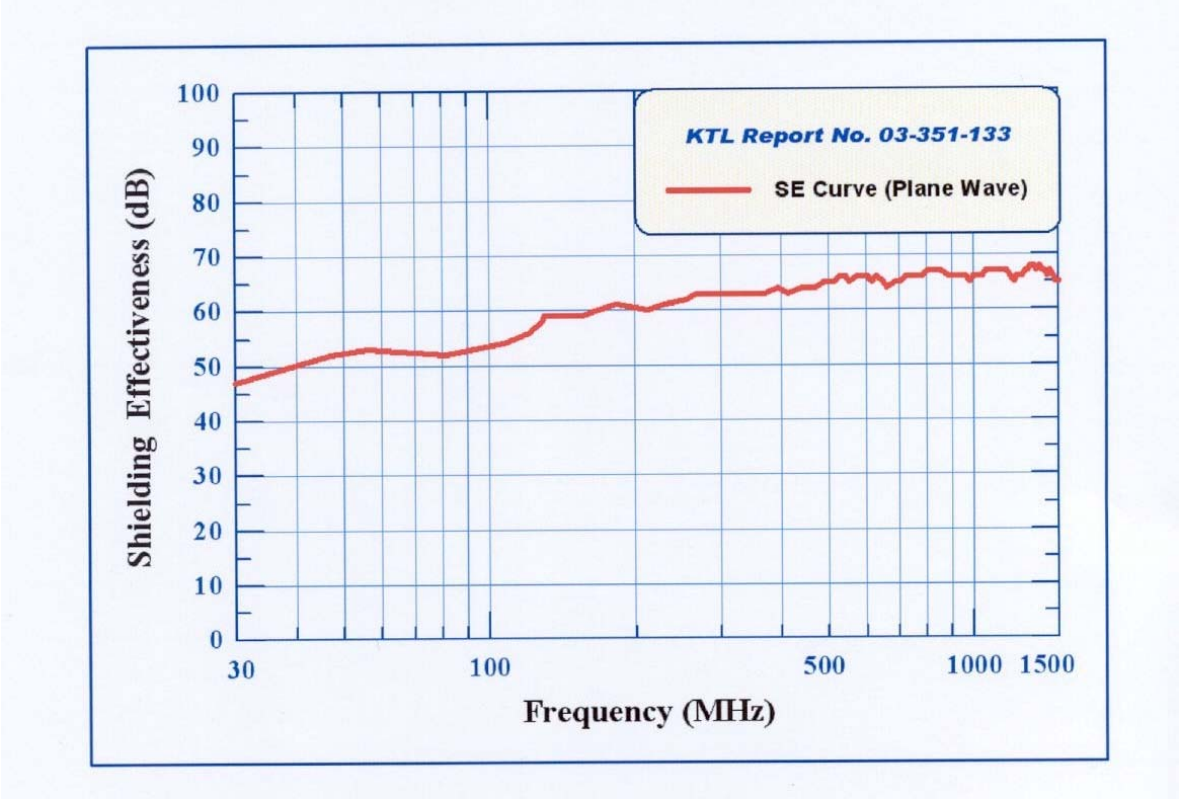
Shielding Effectiveness

Many factors determine the true shielding effectiveness of a shielding tape, including type and thickness, adhesive strength, degree of contact, smoothness of application surface, strength and frequency of the EMI signal, etc. However, using standard tests and fixtures, it is possible to determine a value for the attenuation

Properties	Typical Value
Type of Backing	PET-laminated aluminum foil backing
Type of Adhesive	Conductive acrylic adhesive
Total thickness (backing plus adhesive)	0.06 ± 0.005 mm
Adhesion to steel[1]	1000 g_f/ 25 mm (2.2 N / 25 mm)
Electrical resistance through adhesive[2]	0.02 Ω / 25 mm^2
Shielding effectiveness[3]	Refer to attenuation chart

* Footnotes: 1. ASTM D 1000 Test method
2. MIL-STD-202 Method 307
3. ASTM-D-4935 Test method

Shielding Effectiveness (Test method: ASTM D4935)



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