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3M™ EMI Embossed Tin-Plated Copper Shielding Tape 1345 with Non-Conductive Acrylic Adhesive

Data Sheet **June 2021**

Product Description

3M™ EMI Embossed Tin-Plated Copper Shielding Tape 1345 is a 4.1-mil (0.104 mm) thick tape composed of a 1.4-mil (0.036 mm) embossed tin-plated copper foil backing coated on one side with a non-corrosive, non-conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.

- Embossed pattern cuts through adhesive to establish z-axis contact between the Tin-plated copper backing and application substrate
- Commonly used for grounding, EMI shielding in equipment, components and shielded rooms
- Can be die-cut, is solderable and offers a multitude of uses in electrical design and test laboratories for prototyping, design and troubleshooting
- Adhesive requires no moisture, solvents, heat or other manner of preparation to affect application
- Flame Retardant per UL-510A Standard

Properties

Physical Properties	*Value Imperial (Metric)*
Color - Visual	Matte Tin
Adhesive	Non-Conductive Acrylic
Backing	Tin-Plate Copper Foil - Embossed
Flame Retardant[2]	Pass
Mechanical Properties	***Value Imperial (Metric)***
Backing Thickness - Nominal	1.4 mil (0.036 mm)
Total Thickness[1]	4.1 +/- 0.51 mils (0.104 +/- 0.013 mm)
Adhesion to Steel[1] *- Minimum*	30.2 oz/in (3.3 N/cm)
Breaking Strength[1] *- Minimum*	14 lb/in (25N/cm)

Electrical Properties	*Value Imperial (Metric)*
Electrical Resistance[4] *- Maximum*	0.005 Ω/in^2
Shielding Effectiveness[3] *- Average 300 kHz – 2.5 GHz*	66 dB

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. UL Recognized Flame Retardant per UL510A Standard, Category OARC2, File No. E17385
3. ASTM D4935 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
4. Test Method: MIL-STD-202 Method 307 maintained at 5 psi (3.4 N/cm^2) measured over a 1 in^2 surface area

Shielding Effectiveness

Many factors determine the true shielding effectiveness of a shielding tape, including type and thickness of foil, adhesive type, intimacy of contact, smoothness of application surface, frequency of the EMI signal, etc.

Agency Approvals & Self Certifications

- UL Component Recognized: UL510A Standard, Category OARC2, File No. E17385
- For Regulatory information including RoHS, REACH, please visit www.3M.com/regs

Shelf Life & Storage

This product has a 5-year shelf life (from date of manufacture) when stored in humidity-controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).

Availability

3M™ EMI Embossed Tin-Plated Copper Shielding Tape 1345 available from 3M authorized distributors / converters

Also available from 3M.com/oem or call 1.800.245.3573.

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