



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

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) | Electrical Properties | Value Imperial (Metric) |
|--|---|---|----------------------------|
| Color - Visual | Matte Tin | Electrical Resistance ⁴ - Maximum | 0.005 Ω/in ² |
| Adhesive | Non-Conductive Acrylic | Shielding Effectiveness ³ - Average 300 kHz – 2.5 GHz | 66 dB |
| 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) | | |

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/cm²) measured over a 1 in² 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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TECHNICAL STATEMENT

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