



# 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<br>Imperial (Metric)                | Electrical Properties                                               | Value<br>Imperial (Metric) |
|------------------------------------------|-------------------------------------------|---------------------------------------------------------------------|----------------------------|
| Color - Visual                           | Matte Tin                                 | Electrical Resistance <sup>4</sup> - Maximum                        | 0.005 Ω/in <sup>2</sup>    |
| Adhesive                                 | Non-Conductive Acrylic                    | Shielding Effectiveness <sup>3</sup> - Average<br>300 kHz – 2.5 GHz | 66 dB                      |
| Backing                                  | Tin-Plate Copper Foil - Embossed          |                                                                     |                            |
| Flame Retardant <sup>2</sup>             | Pass                                      |                                                                     |                            |
| Mechanical Properties                    | Value<br>Imperial (Metric)                |                                                                     |                            |
| Backing Thickness - Nominal              | 1.4 mil (0.036 mm)                        |                                                                     |                            |
| Total Thickness <sup>1</sup>             | 4.1 +/- 0.51 mils<br>(0.104 +/- 0.013 mm) |                                                                     |                            |
| Adhesion to Steel <sup>1</sup> - Minimum | 30.2 oz/in (3.3 N/cm)                     |                                                                     |                            |
| Breaking Strength <sup>1</sup> - 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/cm<sup>2</sup>) measured over a 1 in<sup>2</sup> 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](http://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](http://3M.com/oem) or call 1.800.245.3573.

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