

# Technical data sheet



Product: 1245

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: ELEKTRO

Article group: KLEBEBAND

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## 3M™ EMI COPPER SHIELDING TAPE 1245

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# 3M™ EMI Embossed Copper Shielding Tape 1245 with Non-Conductive Acrylic Adhesive

**Data Sheet**

**June 2021**

- Product Description** 3M™ EMI Embossed Copper Shielding Tape 1245 is a 4.2-mil (0.107 mm) thick tape composed of a 1.4-mil (0.036 mm) embossed 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 copper foil 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	Copper	Electrical Resistance <sup>4</sup> - Maximum	0.005 Ω/in <sup>2</sup>
Adhesive	Non-Conductive Acrylic	Shielding Effectiveness <sup>3</sup> - Average 300 kHz – 2.5 GHz - Average	64 dB
Backing	Copper Foil - Embossed		
Flame Retardant <sup>2</sup>	Pass		
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	1.4 mil (0.036 mm)		
Total Thickness <sup>1</sup>	4.2 +/- 0.7 mils (0.107 +/- 0.018 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	30.2 oz/in (3.3 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	21.9 lb/in (38 N/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 Copper Shielding Tape 1245 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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