



3M™ EMI Copper Foil Shielding Tape 1194 with Non-Conductive Acrylic Adhesive

Product Description 3M™ EMI Copper Foil Shielding Tape 1194 is a 2.64-mil (0.067 mm) thick tape composed of a 1.4-mil (0.036 mm) flat copper foil backing coated on one side with a non-corrosive, non-conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.

- Commonly used for EMI/RFI shielding applications in the electronics industry and for static charge draining, seaming shielded rooms, cable wrapping and surface contact to non-solderable materials
- 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	Shielding Effectiveness ³ - Average 300 kHz – 2.5 GHz	65 dB
Adhesive	Non-Conductive Acrylic		
Backing	Copper Foil - Flat		
Flame Retardant ²	Pass		
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	1.4 mil (0.036 mm)		
Total Thickness ¹	2.64 +/- 0.23 mils (0.067 +/- 0.006 mm)		
Adhesion to Steel ¹ - Minimum	30 oz/in (3.3 N/cm)		
Breaking Strength ¹ - Minimum	22 lb/in (39 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

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 Copper Foil Shielding Tape 1194 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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Electrical Markets Division
13011 McCallen Pass, Bldg. C
Austin, TX 78753
Phone: 800.676.8381
www.3M.com/oem

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