Technical data sheet

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Manufacturer:	3M DEUTSCHLAND GMBH
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3M EMI COPPER FOIL SHIELDING TAPE 1182

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Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708

3M™ EMI Copper Foil Shielding Tape 1182 with Double Coated Electrically Conductive Acrylic Adhesive

Data Sheet **June 2021**

Product Description

3M™ EMI Copper Foil Shielding Tape 1182 is a 3.5-mil (0.089 mm) thick tape composed of a 1.4-mil (0.036 mm) flat copper foil backing coated on both sides with a non-corrosive, electrically conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.

- Commonly used for bonding two surfaces together, both physically and electrically
- Provides low z-axis resistance connection between substrates
- Can be die-cut 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	Copper
Adhesive	Double Coated Electrically 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]	3.5 +/- 0.5 mils (0.089 +/- 0.013 mm)
Adhesion to Steel[1] - Minimum	25 oz/in (2.7 N/cm)
Breaking Strength[1] - Minimum	22 lb/in (39 N/cm)

Electrical Properties	*Value Imperial (Metric)*
Electrical Resistance[4] - Maximum	0.010 Ω/in^2
Shielding Effectiveness[3] - Average 300 kHz – 2.5 GHz	54 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
   a. Silver coated glass beads embedded in acrylic adhesive provide the electrical path between application substrate and foil backing

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 1182 available from 3M authorized distributors / converters

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

3M™ EMI Copper Foil Shielding Tape 1182 with Double Coated Electrically Conductive Acrylic Adhesive

TECHNICAL STATEMENT

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

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