3M™ Aluminum Foil Tape 1115B with Electrically Conductive Acrylic Adhesive

Data Sheet **June 2021**

Product Description

3M™ Aluminum Foil Tape 1115B is a 5.7-mil (0.145 mm) thick tape composed of a 4.5-mil (0.114 mm) flat aluminum foil backing coated on one side with a non-corrosive, electrically conductive acrylic pressure-sensitive adhesive supplied on a removeable liner.

- Commonly used for EMI/RFI shielding applications in the electronics industry and for grounding applications requiring electrical conductivity from the application substrate through the conductive adhesive to the foil backing
- 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

Properties

Physical Properties	*Value Imperial (Metric)*
Color - Visual	Silver
Adhesive	Electrically Conductive Acrylic
Backing	Aluminum Foil - Flat
Mechanical Properties	***Value Imperial (Metric)***
Backing Thickness - Nominal	4.5 mil (0.114 mm)
Total Thickness[1]	5.7 +/- 0.4 mils (0.145 +/- 0.010 mm)
Adhesion to Steel[1] - Minimum	35 oz/in (3.8 N/cm)
Breaking Strength[1] - Minimum	40.7 lb/in (71 N/cm)

Electrical Properties	*Value Imperial (Metric)*
Electrical Resistance[3] - Maximum	0.010 Ω/in^2
Shielding Effectiveness[2] - Average 300 kHz – 2.5 GHz	66 dB

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
2. ASTM D4935 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated
3. 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

- 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™ Aluminum Tape 1115B 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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