



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

Data Sheet

July 2022

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)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Silver	Electrical Resistance ³ - Maximum	0.010 Ω/in ²
Adhesive	Electrically Conductive Acrylic	Shielding Effectiveness ² - Average 300 kHz to 2.5 GHz	71 dB
Backing	Aluminum Foil - Flat	Shielding Effectiveness ² - Average 300 kHz to 500 MHz	74 dB
Mechanical Properties	Value Imperial (Metric)	Shielding Effectiveness ² - Average 500 MHz to 1.0 GHz	70 dB
Backing Thickness - Nominal	4.5 mil (0.114 mm)	Shielding Effectiveness ² - Average 1.0 GHz to 1.5 GHz	72 dB
Total Thickness ¹	5.7 +/- 0.4 mils (0.145 +/- 0.010 mm)	Shielding Effectiveness ² - Average 1.5 GHz to 2.0 GHz	68 dB
Adhesion to Steel ¹ - Minimum	35 oz/in (3.8 N/cm)	Shielding Effectiveness ² - Average 2.0 GHz to 2.5 GHz	71 dB
Breaking Strength ¹ - Minimum	40.7 lb/in (71 N/cm)		

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
 - a. 3M Test Reports RPT-791659 available – Shielding Effectiveness 300 kHz to 2.5 GHz
3. Test Method: MIL-STD-202 Method 307 maintained at 5 psi (3.4 N/cm²) measured over a 1 in² 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**
- Test report RPT-791659 available Shielding Effectiveness 300 kHz to 2.5 GHz
 - 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 and converters
Also available from www.3M.com/oem or call 1.800.676.8381.

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TECHNICAL STATEMENT

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78-8127-9689-0 Rev C