



# 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<br>Imperial (Metric)               | Electrical Properties                                               | Value<br>Imperial (Metric) |
|------------------------------------------|------------------------------------------|---------------------------------------------------------------------|----------------------------|
| Color - Visual                           | Silver                                   | Electrical Resistance <sup>3</sup> - Maximum                        | 0.010 Ω/in <sup>2</sup>    |
| Adhesive                                 | Electrically Conductive Acrylic          | Shielding Effectiveness <sup>2</sup> - Average<br>300 kHz – 2.5 GHz | 66 dB                      |
| Backing                                  | Aluminum Foil - Flat                     |                                                                     |                            |
| Mechanical Properties                    | Value<br>Imperial (Metric)               |                                                                     |                            |
| Backing Thickness - Nominal              | 4.5 mil (0.114 mm)                       |                                                                     |                            |
| Total Thickness <sup>1</sup>             | 5.7 +/- 0.4 mils<br>(0.145 +/- 0.010 mm) |                                                                     |                            |
| Adhesion to Steel <sup>1</sup> - Minimum | 35 oz/in (3.8 N/cm)                      |                                                                     |                            |
| Breaking Strength <sup>1</sup> - 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
3. 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
  - 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](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™ Aluminum Tape 1115B 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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