3M™ 1115B

Aluminum Foil Tape with Conductive Acrylic Adhesive

Data Sheet **September 2009**

Description

3M™ Shielding Tape 1115 consists of a 4.5mil aluminum foil backing and a unique electrically conductive pressure sensitive adhesive.

- 4.5 mil aluminum foil backing
- Conductive acrylic adhesive
- Supplied on a removable liner
- Easily die cut into complex shapes
- Available in standard and custom widths and lengths up to 60yds (54.86m)

Agency Approvals & Self Certifications

RoHS 2002/95/EC

RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2002/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

Applications

3M™ 1115 Shielding Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. The 4.5mil thickness provides exceptional EMI shielding effectiveness and exceptional structural support properties. The low electrical resistance makes 1115 Shielding Tape an excellent choice for grounding applications.

Shielding Effectiveness

Many factors determine the true shielding effectiveness of a shielding tape including, but not limited to, type and thickness of foil, adhesive type, intimacy of contact and smoothness of application surface. Theoretical shielding effectiveness is listed below.

Typical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum.

Properties measured at room temperature 73°F (~23°C) unless otherwise stated.

Physical

Property (Test Method)	Typical Value
Product Number	1115
Adhesive	Conductive acrylic pressure sensitive adhesive (PSA)
Backing thickness	4.5mil (0.114mm)
Total Thickness	6.0 mil (0.152 mm)
Shielding Effectiveness (Theoretical)	>120 dB above 1 MHz
Electrical resistance through adhesive[1]	6.50 mΩ/☐
Adhesion to steel	52 oz/in (5.6 N/10mm)
Breaking Strength	40 lb/in (70.1 N/10mm)
Temperature range	-40° to 130° C

Notes: 1. Test method: MIL-STD-202 Method 307 maintained at 5 psi (3,4 N/cm^2) measured over 1 in^2 surface area. Silver coated glass beads in the adhesive provide the electrical path between the application substrate and the foil backing

2. Attenuation is measured by 7mm coaxial verification kit under short fixed condition. Power loss is

3M™ 1115 Shielding Tape with Conductive adhesive

Shelf Life & Storage	This product has a 5-year shelf life from date of manufacture when stored in a humidity controlled storage (10°C/50°F to 27°C/80°F and <75% relative humidity).
Availability	Please contact your local distributor; available from 3M.com/electrical [Where to Buy] or call 1-800-245-3573.
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