3M

1170 Tape

Aluminum Foil with Conductive Adhesive
Data Sheet

Product Description

3M™ 1170 Tape consists of a 1-ounce deadsoft aluminum foil backing and a unique electrically conductive pressure-sensitive acrylic adhesive.

• Deadsoft 1-ounce aluminum foil backing
• Conductive acrylic adhesive
• Supplied on a removable liner for easy handling and diecutting

Like all 3M shielding tapes, 3M 1170 is available in standard and custom widths and lengths. Standard length is 18 yards.

• Widths from 1/4" to 23"
• Longer lengths up to several times normal length, dependent upon width. Check with Customer Service.

Applications

3M 1170 Tape is typically used for applications requiring excellent electrical conductivity from the application substrate through the adhesive to the foil backing. Common uses include grounding and EMI shielding in equipment, components, shielded rooms, etc.

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, strength and frequency of the EMI signal, etc. However, using standard tests and fixtures, it is possible to determine a value for the attenuation.

For 3M 1170 Tape, typical shielding effectiveness (far field) is in the range of 60dB to 75dB (30 MHz to 1 GHz).

Properties	Typical Values
Backing thickness	2.0 mil (0,05mm)
Total thickness (backing plus adhesive)	3.2 mil (.081mm)
Breaking strength [1]	20 lb./in (35 N/10mm)
Adhesion to steel [1]	35 oz/in (3,8 N/10mm)
Electrical resistance through adhesive [2]	0.010 ohm
Flame retardancy [3]	Pass

* Footnote: 1. Test method ASTM D 1000
      2. MIL-STD-202 Method 307 maintained at 5 psi (3,4 N/cm^2) measured over 1 in^2 surface area. Conductive particles in the adhesive provide the electrical path between the application substrate and the foil backing.
      3. UL-recognized for flame retardancy per UL 510, Product Category 0ANZ2, File E17385.

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