



1120 Tape

Aluminum Foil with Conductive Adhesive

Data Sheet



Product Description

3M™ 1120 Tape consists of a 1-ounce deadsoft aluminum foil backing and an 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
- Meets flame spread requirement of UL 510

Applications

3M 1120 tape is typically used for applications requiring excellent electrical conductivity and is designed for EMI/RFI shielding and cable wrap.

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.

Typical Properties

Typical Values

Adhesive	Acrylic Conductive
Backing	Aluminum
Backing Thickness	2.0 mils (0.05mm)
Total Thickness ¹	4.0 mils (0.100mm)
Color	Silver Metallic
Electrical Resistance ²	0.009 ohm
Flame Retardancy ³	Pass
Breaking Strength ⁴	16 lbs/in (25N/10mm)
Elongation ⁴ (% at break)	5%
Adhesion to Steel ⁵	36 oz/in (3.9N/10mm)

Note: Typical properties are not recommended for specification purposes. Product specifications will be provided upon request.

- Footnote:
- 1 Test Method ASTM D1000
 - 2 Mil-STD-202 Method 303 maintained at 5 psi (3,4N/cm²) measured over 1 in² 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 OANZ2, File E17385.
 - 4 Test Method ASTM D3759
 - 5 Test Method ASTM D3330

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IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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Electrical Products Division

6801 River Place Blvd.

Austin, TX 78726-9000

<http://www.3M.com/elpd/oem>

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