

MasterTop[®] Copper Tape

Embossed copper foil

DESCRIPTION

MasterTop Copper Tape consists of an embossed 1-ounce deadsoft copper foil backing and an aggressive pressure-sensitive acrylic adhesive. The edges of the embossed pattern pressed into the foil cut through the adhesive layer to establish reliable metal-to-metal contact between the backing and the application substrate.

- Embossed deadsoft 1-ounce copper foil backing
- Conductivity “through the adhesive”
- Supplied on a removable liner for easy handling and die-cutting

Like all 3M shielding tapes, 3M 1245 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

MasterTop Copper 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. The copper foil backing is solderable and resists oxidation and discoloration.

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 **MasterTop Copper Tape**, typical shielding effectiveness (far field) is in the range of 75Db to 85dB (30 MHz to 1 GHz).

PROPERTIES

Backing thickness ¹	0.04mm
Total thickness (backing plus adhesive)	0.101mm
Breaking strength ¹	44 N/10mm
Adhesion to steel ¹	3.8 N/10mm
Electrical resistance through adhesive ²	0.001ohm
Flame retardancy ³	Pass

1. Test method ASTM D 1000

2. MIL-STD-202 Method 307 maintained at 5 psi (3,4 N/cm²) measured over 1 in² surface area. The edges of the embossing pattern in the foil backing penetrate through the nonconductive adhesive to make metal-to-metal contact with the application substrate.

3. UL-recognized for flame retardancy per UL 510, Product Category 0ANZ2, File E17385.

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All BASF Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and BASF ESHQ recommendations.

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