

3M™ Bus Tape 1007N

Product Description

3M™ Bus Tape 1007N consists of a 1-ounce tin-plated deadsoft copper foil backing and a pressure-sensitive adhesive. This single-coated foil tape features:

- Deadsoft copper with corrosion resistant tin-plating
- Low outgassing, non-corrosive acrylic adhesive
- Excellent high-temperature adhesive shear properties
- Supplied on a removable liner for easy handling and die cutting

3M Charge-Collection Solar Tape 1007N is available in standard and custom widths and lengths:

- Standard widths: 6.35 mm (1/4"), 4 mm (0.157"), 584 mm (23")
- Standard lengths: 66 m, variable (225-360 m) at 584 mm width

Please contact your local 3M Representative regarding availability of custom product sizes.

Applications

3M Bus Tape 1007N is designed for use as an electrical bus within a thin-film solar panel. The adhesive was formulated to undergo the vacuum lamination process typically used in the manufacture of solar panels.

UL Component Recognition

UL Recognition for flame retardancy per UL 510.

Typical Physical Properties

(Data not for specification purposes)

Properties	Typical Values
Adhesive mil (mm)	0.9 (0.023) Acrylic
Backing Thickness and Material ¹ mil (mm)	1.4 (0.036) Tin-Plated Copper
Total Thickness (Backing and Adhesive) mil (mm)	2.6 (0.07)
Color	Silver (tin)
Temperature Process (short term vacuum lamination) °F (°C)	320 (160)
Adhesion Properties:	
Adhesion to Steel ¹ oz/in (N/mm)	60 (6.6)
Mechanical Properties:	
Breaking Strength ¹ lb/in (N/10 mm)	25 (44)
Electrical Properties:	
Flame Retardancy ²	Pass
Total Outgassing ³ ng/cm ²	<2500

¹ Test Method ASTM D-1000

² UL 510

³ Test Method available upon request.



Note: All tapes should be thoroughly evaluated by the user under actual conditions with intended substrates to determine whether a specific tape is fit for a particular purpose and suitable for user's method of application, especially if expected use involves extreme environmental conditions.

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

Storage Conditions

Store under normal conditions of 50°F to 80°F (10°C to 27°C) and less than 75% relative humidity in the original carton.

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800 755 2654

Germany

49 2131 144450

Denmark

45 43 480100

Spain

34 91 3216000

France

33 1 30316161

United Kingdom

44 1344 858000

Italy

39 02 70351

Singapore

65 6450 8888

China

86 21 62753535

Korea

82 2 3771 4043

India

91 80 22231414

Canada

800 364 3577

Brazil

0800 13 23 33

Mexico

52 55 52702250

Taiwan

886 933 896752

Japan

81 3 3709 8283

Malaysia

603 78062888

Other Areas

800 755 2654

For more information on our solar manufacturing product line, contact 3M Renewable Energy at 800-755-2654 or visit us at www.3M.com/solar.

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