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)

<table>
<thead>
<tr>
<th>Properties</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive mil (mm)</td>
<td>0.9 (0.023)</td>
</tr>
<tr>
<td>Backing Thickness and Material¹ mil (mm)</td>
<td>1.4 (0.036)</td>
</tr>
<tr>
<td>Total Thickness (Backing and Adhesive) mil (mm)</td>
<td>2.6 (0.07)</td>
</tr>
<tr>
<td>Color</td>
<td>Silver (tin)</td>
</tr>
<tr>
<td>Temperature Process °F (°C)</td>
<td>320 (160)</td>
</tr>
</tbody>
</table>

| Adhesion Properties:                     |
| Adhesion to Steel¹ oz/in (N/mm)          | 60 (6.6)       |

| Mechanical Properties:                   |
| Breaking Strength¹ lb/in (N/10 mm)       | 25 (44)        |

| Electrical Properties:                   |
| Flame Retardancy²                        | Pass           |
| Total Outgassing ng/cm²                  | <2500          |

¹ Test Method ASTM D-1000
² UL 510

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.
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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