3M™ Double-Coated Polyethylene Foam Tape P7100B

Product Description
3M™ Double-Coated Polyethylene Foam Tape P7100B combines a conformable closed cell foam with a high-strength acrylic adhesive, providing good initial tack and offering high ultimate adhesion to a wide variety of surfaces.

Typical Physical Properties
(Data not for specification purposes)

<table>
<thead>
<tr>
<th>Properties</th>
<th>Typical Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Tape Thickness</td>
<td>1.05 ± 0.2 mm</td>
</tr>
<tr>
<td>Adhesive Type</td>
<td>Modified Acrylic</td>
</tr>
<tr>
<td>Foam Type</td>
<td>PE Foam</td>
</tr>
<tr>
<td>Release Liner</td>
<td>Type PP Film Thickness</td>
</tr>
<tr>
<td></td>
<td>Color Blue</td>
</tr>
</tbody>
</table>

Dynamic Adhesion Performance

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° Peel Adhesion</td>
<td>N/25 mm</td>
<td>&gt;12.5 Cohesion</td>
</tr>
</tbody>
</table>

Static Shear

<table>
<thead>
<tr>
<th></th>
<th>Weight (grams) that 6.25 cm² will hold 10,000 minutes (7 days)</th>
<th>68°F (20°C)</th>
<th>500 g</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° Peel Adhesion – A.F.E.R.A. 5001</td>
<td>After 20 seconds, polished steel, separation speed 100 mm/min. at RT.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Static Shear – A.F.E.R.A. 5012</td>
<td>After 20 min. dwell, polished steel, &gt;10,000 min., 500 g/6.25 cm² bonded area.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Application Ideas
Foam Tape P7100B can be used for solar module frame bonding.

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

Application Guidelines
Temperature, humidity and pressure can impact the initial adhesion characteristics.
- **Temperature**: Suggested application temperatures are 21°C to 38°C (70°F to 100°F).
- **Humidity**: The suggested humidity target for the application is below 90% R.H. Solar
- **Pressure**: Suggested pressurization is 20 N/cm². Minimum suggested pressurization is 10 N/cm².

To a large extent, the impact of these variables depends on the substrate. Use of this product under conditions outside the recommended ranges can have either positive or negative effects on tape performance, depending on the specific substrate and application.

Slitting Tolerance
Standard slitting tolerance ± 0.2 mm

Core Size
Available on a 76.2 mm ID Core

UL Component Recognition
UL recognized, tested in accordance with UL746C, listed under file E316895.

Shelf Life
12 months from date of manufacture when stored at 23°C ± 8°C and 50% relative humidity and protected from UV light and dust.
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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