April, 2015

3M™ Polyester Tape 8991/8991L

Product Description

3M™ Polyester Tape 8991 is a blue polyester tape with a silicone adhesive. It can be used in a large variety of high temperature applications including powdercoat masking, flashbreaker, and bag sealing applications. Additional applications include, splicing, tabbing, or roll closing silicone treated liners or materials.

Product Features

- Polyester films offer excellent thermal, abrasion, and chemical resistance while maintaining their flexibility.
- Blue color makes tape placement obvious for both application and removal.
- Thin backing leaves a sharp paint line and some conformability.
- Silicone adhesives offer high heat resistance compared to many rubber and acrylic adhesives, reducing failure due to softening, oozing, and adhesive transfer.
- Silicone adhesives adhere well to tough-to-stick-to surfaces like silicone liners and fixtures coated with mold release.
- Silicone adhesive removes cleanly from many surfaces.
- Linered version available for die-cuts.
3M™ Polyester Tape 8991/8991L

Technical Information Note

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

Typical Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Blue</td>
<td></td>
</tr>
<tr>
<td>Total Tape Thickness</td>
<td>0.061 mm</td>
<td>2.4 mil</td>
</tr>
<tr>
<td>Backing Thickness</td>
<td>0.025 mm</td>
<td>1 mil</td>
</tr>
<tr>
<td>Backing</td>
<td>Polyester</td>
<td></td>
</tr>
<tr>
<td>Adhesive</td>
<td>Silicone</td>
<td></td>
</tr>
<tr>
<td>Liner Material</td>
<td>Polyester</td>
<td></td>
</tr>
<tr>
<td>Liner Thickness</td>
<td>0.075 mm</td>
<td>3 mil</td>
</tr>
</tbody>
</table>

Typical Performance Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Method</th>
<th>Substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peel Adhesion</td>
<td>3.4 N/cm</td>
<td>31 oz/in</td>
<td>ASTM D3330</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>50.8 N/cm</td>
<td>464 oz/in</td>
<td>ASTM D3759</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>100 %</td>
<td></td>
<td>ASTM D3759</td>
</tr>
<tr>
<td>Temperature Use Range</td>
<td>Up to 204 °C</td>
<td>Up to 400 °F</td>
<td></td>
</tr>
</tbody>
</table>
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Available Sizes

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Roll Length</td>
<td>65.8 m</td>
</tr>
</tbody>
</table>

Handling/Application Information

Application Ideas

- Masking for powdercoat painting.
- Flashbreaker tape when pulling through cured coating such as epoxies.
- Holding and splicing difficult to stick to surfaces such as silicone liner.
- Holding parts or sealing vacuum bags during processing.

Storage and Shelf Life

Store under normal conditions of 60º to 80ºF (16º to 27ºC) and 40 to 60% relative humidity in the original packaging material.

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

Trademarks

3M is a trademark of 3M Company.

References

1. 3m.com Product Page

2. Safety Data Sheet

ISO Statement

This product was manufactured under a quality system registered to ISO 9001 standards.
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