### Product Description
Scotch® Box Sealing Tape 311+ is a high-performance tape designed for box sealing, splicing, recouperage, and other demanding packaging applications on light to medium weight boxes. The product offers excellent performance over a broad temperature range, specifically in colder and damper applications, and adheres to recycled fiberboard.

### Product Construction
- **Backing:** Biaxially Orientated Polypropylene Film
- **Adhesive:** Pressure sensitive acrylic
- **Color:** Clear

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>ASTM Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion to Steel</td>
<td>38 oz./in. width (42 N/100mm)</td>
<td>D-3330</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Machine Direction</td>
<td>25 lbs./in. width (438N/100mm)</td>
<td>D-3759</td>
</tr>
<tr>
<td>Cross Direction</td>
<td>40 lbs./in. width (700N/100mm)</td>
<td>D-3759</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>125%</td>
<td>D-3759</td>
</tr>
<tr>
<td>Tape Thickness: Backing</td>
<td>1.1 mil (0.0304mm)</td>
<td>D-3652</td>
</tr>
<tr>
<td>Total</td>
<td>2.05 mil (0.0533mm)</td>
<td></td>
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</tbody>
</table>
3M™ Scotch® Box Sealing Tape 311+

Features

- Adheres instantly to a variety of surfaces
- Edge tear and split resistance
- Adheres well to recycled corrugate
- Complies with the environmental considerations of ASTM D 1974-92.
- Conformable backing.
- Good aging in sunlight or fluorescent lighting.
- Long life in use.

Available Sizes

<table>
<thead>
<tr>
<th>Standard widths</th>
<th>48 mm, 72 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Size (ID)</td>
<td>3 in.</td>
</tr>
<tr>
<td>Length</td>
<td>100 m, 914 m</td>
</tr>
</tbody>
</table>

Application Techniques

An extensive line of application equipment including hand held manual dispensers and semi-automatic and fully automatic equipment is available. Scotch® Box Sealing Tape 311+ has been applied to fiberboard boxes with good results at freezer and refrigeration temperatures of 20°F to 50°F (-6.6°C to 10°C). Once applied, Scotch® Tape 311+ performs well on fiberboard boxes subjected to temperatures below 32°F (0°C).

Storage Conditions

Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

Technical Information

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