Pressure-sensitive laminating films M-023PV80

**Features**
- Surface protection laminating films for digital print
- It protects the image surface and enhances appearance and durability by laminating in printing materials.
- Provides excellent cost performance, and UV protection effects
- It uses ultra-smooth release liner (paper).

**Applications**
For short-term outdoor applications

**Standard sizes**
- 1,090 mm × 50 m rolls
- 1,250 mm × 30 m rolls
- 1,350 mm × 30 m rolls

**Product configuration**
- Face stock on the surface: PVC film 80µm/transparent/matte
- Pressure-sensitive adhesive: Acrylic pressure-sensitive adhesive/transparent permanent adhesive
- Release liner: Release liner/paper, highly smooth, double side are polyethylene laminated (white)
- Weight: 257g/rl (Includes release liner)

**Properties**

**Adhesion (value)**

<table>
<thead>
<tr>
<th>Test items</th>
<th>Unit</th>
<th>Properties</th>
<th>Test panel</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesive strength 30 minutes after adhering</td>
<td>N/25mm</td>
<td>16.8</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
<tr>
<td>Adhesive strength 24 hours after adhering</td>
<td>N/25mm</td>
<td>27.1</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
<tr>
<td>Ball tack</td>
<td>No.</td>
<td>8</td>
<td>—</td>
<td>J.Dow method</td>
</tr>
<tr>
<td>Holding strength</td>
<td>Second</td>
<td>NC 30000</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
</tbody>
</table>

**LINTEC method**

- Adhesive strength test method: Test instrument: load-cell tensile tester, release angle: 180°
  Test conditions: 23°C 50% RH, release speed: 300 mm/min
  One round trip with a rubber roller of 2 kg adhesion pressure
  Test panel: Stainless panel (SUS304 #360 polishing finish)
- Holding strength test method: Angle: 0°, test conditions: 40°C, adhesion area: 25 mm × 25 mm,
  Five round trips with a rubber roller of 2 kg adhesion pressure, still load: 9.8 N
  Test panel: Stainless panel (SUS304 #360 polishing finish)

- Base material failure
- Conhesion failure
- Adhesive transfer
- Zipping
- NC: No creep

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http://www.lintec-global.com/
Technical data sheet

Film properties

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>MD</td>
<td>N/25mm 87</td>
</tr>
<tr>
<td></td>
<td>CD</td>
<td>N/25mm 77</td>
</tr>
<tr>
<td>Tensile expansion rate</td>
<td>MD</td>
<td>% 327</td>
</tr>
<tr>
<td></td>
<td>CD</td>
<td>% 392</td>
</tr>
</tbody>
</table>

Optical properties

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultraviolet ray transmission</td>
<td>%</td>
<td>9.3</td>
</tr>
<tr>
<td>Visible light transmission</td>
<td>%</td>
<td>38.2</td>
</tr>
</tbody>
</table>

Example of the combined use of materials

Our recommended printing materials by applications.

<<Outdoor signage applications (Short and medium-terms) >>

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Face stock</th>
<th>Texture</th>
<th>Thickness (µm)</th>
<th>Pressure-sensitive adhesive</th>
<th>Standard sizes (mm×m)</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-249ZW</td>
<td>PVC film</td>
<td>White gloss</td>
<td>80</td>
<td>Permanent adhesive gray</td>
<td>1,370×30 1,400×30</td>
<td>For short and medium-term outdoor applications</td>
</tr>
</tbody>
</table>

<<Backlight applications>>

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Face stock</th>
<th>Texture</th>
<th>Thickness (µm)</th>
<th>Pressure-sensitive adhesive</th>
<th>Standard sizes (mm×m)</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>P-284ZC</td>
<td>PVC film</td>
<td>Transparent</td>
<td>80</td>
<td>Permanent adhesive</td>
<td>1,370×30 1,400×30</td>
<td>For short-term outdoor applications</td>
</tr>
<tr>
<td>P-245RC</td>
<td>PVC film</td>
<td>Transparent</td>
<td>80</td>
<td>Removable adhesive</td>
<td>1,370×30 1,400×30</td>
<td>For short-term outdoor applications</td>
</tr>
</tbody>
</table>

* Durability (usable period) may decline depending on the combined printing materials.

Precautions

- Numerical values in this data sheet are based on the results of our tests, and are not guaranteed.
- Please verify performance in advance according to your application.
- Use the product within one year of purchase. Use the product as early as possible after opening.
- It does not provide removable performance as it is a permanent adhesive.
- Make sure of the adhesion of this pressure-sensitive laminating film and ink by conducting a test in advance.
  - For ink, please consult with printer manufacturers or ink manufacturers.
- This product has a property of being softened by the impact of heat and compression bonding.
  - Please be aware that the gloss and matte on the surface may change depending on the storage method and conditions.
- Make sure of the storage method below.
  - To use for joints and the same surface, use the same lot.
- Please consult with us if you wish to use the product for special applications.
Storage methods

- Avoid high temperature, low temperature and humidity for storage. Be sure to put this product in a bag, and hang it in the air.
- Make sure that it is not exposed to direct sunlight.
- Prevent it from being exposed to fluorescent light at close range.
- Recommended ambient temperature: 10°C-30°C, humidity: 70%RH or less
  The adhesive strength and holding strength become lower at low temperature or high temperature, and it is detached easily.
- Avoid contact with water, chemicals, and shock.

Precautions for output and processing

- Avoid high temperature, low temperature and humidity for storage. Be sure to put this product in a bag, and hang it in the air.
- Make sure that it is not exposed to direct sunlight.
- Prevent it from being exposed to fluorescent light at close range.
- Recommended ambient temperature: 10°C-30°C, humidity: 70%RH or less
  The adhesive strength and holding strength become lower at low temperature or high temperature, and it is detached easily.
- Avoid contact with water, chemicals, and shock.

Precautions for install

- Install ambient temperature: 10°C-40°C
- Install at high temperature may raise the initial adhesive strength and soften products.
- Operating temperature: -30°C-80°C

About maintenance after install

- Wipe with wet soft cloth for normal cleaning. If products get very dirty, use a neutral detergent (a concentration of 1 to 2%) depending on the degree of dirt. When a neutral detergent is used, wipe completely with a wet cloth so that the detergent will not remain.
- Do not use ammonic, chloric, or organic detergents.
- Do not use materials that may scratch the film surface, such as cleansers, hard cloth, and paper.
- Do not hit with hard articles or sharp objects.
- Keep away from cigarettes and other heat sources.
- Do not post a poster with cellophane tape, or articles that use adhesives such as badges and cutting sheets.

* If you have questions about our products, please contact us.
* This sheet provides product information and information about the environment and safety, and does not guarantee performance or quality.
* Product specifications and appearance are subject to change without notice for the purpose of improvement.

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