Printing materials P-280RW

ID: 40VM28001

Features
- Media for solvent inkjet printers
- It uses a pressure-sensitive strong removable adhesive
- It is constructed with a gray pressure-sensitive adhesive which enhance the opacity of the substrate.
- It has excellent dimensional stability
- Follows the flat and simple curve surface.

Applications
For long-term outdoor applications

Standard sizes
1,370mm × 30m rolls
1,400mm × 30m rolls

Product configuration

Face stock on the surface
Durable PVC film 80µm/white/gloss

Pressure-sensitive adhesive
Acrylic pressure-sensitive adhesive/strong removable adhesive gray

Release liner
Release liner/paper, double side are polyethylene laminated (white)
Weight: 295g/m² (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>10.3</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
<tr>
<td>Adhesive strength 24 hours after adhering</td>
<td>N/25mm</td>
<td>13.1</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
<tr>
<td>Ball tack</td>
<td>No.</td>
<td>11</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 2kg 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 2kg adhesion pressure, still load: 9.8N
  Test panel: Stainless panel (SUS304 #360 polishing finish)

☐ B: Base material failure  ☐ Cf: Conhesion failure  ☐ At: Adhesive transfer  ☐ Zip: zipping  ☑ NC: No creep

Contact: Building & Decorative Materials Sales Dept. Kowa Iidabashi Bldg., 2-1-2 Koraku, Bunkyo-ku, Tokyo 112-0004, Japan
TEL. +81-3-3868-7733 FAX. +81-3-3868-7755
E-mail: tag@post.lintec.co.jp

http://www.lintec-global.com/
## Film properties (value)

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Properties</th>
<th>MD</th>
<th>CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>N/25mm</td>
<td>57.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile expansion rate</td>
<td>%</td>
<td>235</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>261</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Example of the combined use of materials

Our recommended pressure-sensitive laminating films by applications.

### Outdoor signage applications (Long-term)

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Face stock</th>
<th>Texture</th>
<th>Thickness (µm)</th>
<th>Standard sizes (mm×m)</th>
<th>UV protection</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-027PV50</td>
<td>PVC film</td>
<td>Gloss</td>
<td>50</td>
<td>1,380×30</td>
<td></td>
<td>For long-term outdoor applications</td>
</tr>
<tr>
<td>M-004PV50</td>
<td>PVC film</td>
<td>Semi matte</td>
<td>50</td>
<td>1,380×30</td>
<td></td>
<td>For long-term outdoor applications</td>
</tr>
<tr>
<td>G-087SV30</td>
<td>ETFE fluoropolymer film</td>
<td>Gloss</td>
<td>30</td>
<td>1,260×30</td>
<td></td>
<td>For long-term outdoor applications</td>
</tr>
</tbody>
</table>

### Train and vehicle wrapping applications

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Face stock</th>
<th>Texture</th>
<th>Thickness (µm)</th>
<th>Standard sizes (mm×m)</th>
<th>UV protection</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-027PV50</td>
<td>PVC film</td>
<td>Gloss</td>
<td>50</td>
<td>1,380×30</td>
<td></td>
<td>For long-term outdoor applications</td>
</tr>
<tr>
<td>M-004PV50</td>
<td>PVC film</td>
<td>Semi matte</td>
<td>50</td>
<td>1,380×30</td>
<td></td>
<td>For long-term outdoor applications</td>
</tr>
</tbody>
</table>

### Floor marking applications

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Face stock</th>
<th>Texture</th>
<th>Thickness (µm)</th>
<th>Standard sizes (mm×m)</th>
<th>UV protection</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-019PN200</td>
<td>PVC film</td>
<td>Emboss matte</td>
<td>200</td>
<td>1,090×30 1,250×30</td>
<td>None</td>
<td>For indoor applications</td>
</tr>
<tr>
<td>M-026PV400</td>
<td>PVC film</td>
<td>Emboss matte</td>
<td>400</td>
<td>1,250×20</td>
<td></td>
<td>For indoor and short-term outdoor applications</td>
</tr>
</tbody>
</table>

*Durability (usable period) may decline depending on the combined laminating films.*
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 Lintec laminating films to improve durability (surface and protection of ink) and workability.
- We recommend that edge guard tapes be used to prevent raising and detaching for some parts, such as vehicle, bus, and railway markings.
- 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

- Do not touch the output surface of media directly with your hand. Sebum, oil, dirt, and scratches may lower print quality.
- Use the product as early as possible after opening.
- Output quality may differ depending on the type of printers to be used and print conditions. We recommend testing it be checked in advance.
  - Do not carry out post-processes such as laminating after printing until the ink is dried completely.
    - For the time needed to dry ink, please contact your printer manufacturer.
- When this product is used with laminating, color tones may change slightly depending on the type of laminating.
  - Check the change after laminating if color tones are deemed important.

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
- Please be fully aware of an install with soapy water. You may have difficulties in removing remaining water from the substrate and pressure-sensitive surface depending on the temperature and humidity conditions, and be unable to achieve sufficient adhesive strength. This may cause raising and detaching.
- Adhesive strength may not be achieved sufficiently depending on the properties of test panels, and raising and detaching may occur.
  - Please check in advance.
- Adhesive strength may not be fully achieved immediately after adhering.
- The adhesive strength may not be achieved fully for install on a substrate where condensation tends to form.
### Test panel

<table>
<thead>
<tr>
<th>Test panel</th>
<th>Install</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP/PE/Fluorine</td>
<td>✴ 1</td>
</tr>
<tr>
<td>ABS</td>
<td>○</td>
</tr>
<tr>
<td>PET</td>
<td>○</td>
</tr>
<tr>
<td>FRP</td>
<td>○</td>
</tr>
<tr>
<td>Acrylic resin</td>
<td>✴ 2</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>✴ 2</td>
</tr>
<tr>
<td>PVC</td>
<td>✴ 3</td>
</tr>
<tr>
<td>Tent materials</td>
<td>✴ 3</td>
</tr>
<tr>
<td>General</td>
<td>✴ 4</td>
</tr>
<tr>
<td>Mesh included</td>
<td>✴ 4</td>
</tr>
</tbody>
</table>

### Removable performance

- A removable pressure-sensitive adhesive is a pressure-sensitive adhesive suitable for detaching after a certain period of time.
- Removable performance differs depending on the adhering period and the type of test panel, and ambient conditions.
- We recommend that test should be conducted in advance.
- Substrates needed for prior removable test
  - PVC films/panels
  - Deteriorated coating substrates
  - Substrates where the adhering facilitation process is applied
  - Substrates where base material failure may occur (paper, plaster boards, etc.)

* 1 The adhesive strength may not be fully achieved.
* 2 A bulge may occur because outgas is generated. Please consult with us in advance.
* 3 As a plasticizer and suspended particles are included, raising and detaching may occur.
* 4 Heat cracks may occur.
* 5 In case of adhering outdoors, this product may be deteriorated, depending on conditions. Please consult with us in advance.
* 6 Basically prior processes and primer coating are needed. Otherwise raising and detaching may occur due to the water oozing and adhesive failure caused by the rough surface.

The above 1 to 6 may differ depending on conditions. Please contact us for details.