Printing materials **U-1003RW**

**Features**
- Media for solvent inkjet printers
- An environmentally friendly product that uses durable urethane films for face stock
- It uses a strong removable pressure-sensitive adhesive
- It is constructed with a gray pressure-sensitive adhesive which enhance the opacity of the substrate.
- Follows the flat and simple curve surface.

**Applications**
For medium and long-term outdoor applications

**Standard sizes**
1,350mm × 30m rolls

**Product configuration**

- **Face stock on the surface**
  - Durable urethane film 70µm/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:265g/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>6.92</td>
<td>Stainless</td>
<td>LINTEC method</td>
</tr>
<tr>
<td>Adhesive strength 24 hours after adhering</td>
<td>N/25mm</td>
<td>9.9</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)

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

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength</td>
<td>MD</td>
<td>56.0</td>
</tr>
<tr>
<td></td>
<td>CD</td>
<td>57.0</td>
</tr>
<tr>
<td>Tensile expansion rate</td>
<td>MD</td>
<td>189</td>
</tr>
<tr>
<td></td>
<td>CD</td>
<td>198</td>
</tr>
</tbody>
</table>

Example of the combined use of materials

Our recommended pressure-sensitive laminating film 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-055AV50</td>
<td>Acrylic film</td>
<td>Gloss</td>
<td>50</td>
<td>1,250×30 1,350×30</td>
<td>☐</td>
<td>For medium-term outdoor applications</td>
</tr>
<tr>
<td>M-056AV50</td>
<td>Acrylic film</td>
<td>Matte</td>
<td>50</td>
<td>1,250×30 1,350×30</td>
<td>☐</td>
<td>For medium-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.
- 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 copy 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>Plastic</th>
<th>Metal</th>
</tr>
</thead>
<tbody>
<tr>
<td>PP/PE/Fluorine</td>
<td>Galvanized steel</td>
</tr>
<tr>
<td>ABS</td>
<td>Bonderized metal</td>
</tr>
<tr>
<td>PET</td>
<td>Melamine coated panel</td>
</tr>
<tr>
<td>FRP</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Acrylic resin</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Polycarbonate</td>
<td>Concrete</td>
</tr>
<tr>
<td>PVC</td>
<td>Mortar</td>
</tr>
<tr>
<td>Tent materials</td>
<td>Slate</td>
</tr>
<tr>
<td>Glass</td>
<td>Plywood</td>
</tr>
<tr>
<td>General</td>
<td>*4</td>
</tr>
<tr>
<td>Mesh included</td>
<td>*4</td>
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Technical data sheet

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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.)

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