Outline

Nitto No. 5000N(C) is a double-coated adhesive tape consisting of flexible, strong non-woven fabric impregnated with acrylic adhesive that is applicable to a wide range of substrates. The tape adheres strongly to substrates such as metal, plastics and urethane foam. It also offers superior repulsion retention properties and durability. The tape offers superior re-peeling properties (tape does not tear and leaves minimal adhesive residue when peeled), and is suitable for applications that require recycling.

Structure

No.5000N(C) B with a black tape layer and No.5000NCL with low release liner are available.

* "Non-woven fabric" is classified under a law called Customs Act of Fixed Rate Chapter 48. "Paper and paperboard; articles of paper pulp, of paper or of paperboard".

Features

● Wide usage range
● Wide range of service temperatures
● Offers superior resistance to repulsion
● Offers superior re-peeling properties
● The six hazardous materials restricted by the RoHS directive are not compounded.

Applications

● Bonding of metal plates, plastic plates and foam.
● Suitable for applications that require re-peeling.

Standards sizes

<table>
<thead>
<tr>
<th>Tape thickness (mm)</th>
<th>Width (mm)</th>
<th>Length (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.16</td>
<td>3 - 1,200</td>
<td>50</td>
</tr>
</tbody>
</table>

For more details contact the person in charge
### Properties

**● 180 degree peeling adhesive strength for each substrates**

![Graph showing 180 degree peeling adhesive strength](image)

- **Stainless steel plate**: 16.0 N/20 mm
- **PP plate**: 15.0 N/20 mm
- **ABS plate**: 15.0 N/20 mm
- **Acrylic plate**: 15.5 N/20 mm
- **Foam (ester)**: 10.0 N/20 mm
- **Foam (ether)**: 7.0 N/20 mm

*Unit: N/20 mm*  
*Backing: PET #25*  
*Peeling speed: 300 mm/min*  
*Peeling angle: 180 degree*  
*Measurement condition: 23 degree C. x 50%RH*

**● Shear strength for each substrates**

![Graph showing shear strength](image)

- **Stainless steel plate**: 450 N/20 mm
- **PP plate**: 350 N/20 mm
- **ABS plate**: 350 N/20 mm
- **Acrylic plate**: 360 N/20 mm
- **PSt plate**: 400 N/20 mm
- **PC plate**: 410 N/20 mm
- **PVC plate**: 500 N/20 mm
- **PET plate**: 400 N/20 mm
- **Glass plate**: 500 N/20 mm
- **Foam (ester)**: 10.0 N/20 mm
- **Foam (ether)**: 7.0 N/20 mm

*Unit: N/20 mm*  
*Peeling speed: 50 mm/min*  
*Measurement condition: 23 degree C. x 50% RH*
● 180 degree peeling adhesion for each temperature

![Graph showing 180 degree peeling adhesion for each temperature.]

- Good
- Bad
- Properties
- Measurement temperature: 0, 10, 23, 40, 80 degree C.

● Holding power

![Graph showing holding power.]

- Good
- Bad
- Properties
- Measurement temperature: 40, 60, 80 degree C.

● Static load peeling

![Graph showing static load peeling.]

- Good
- Bad
- Properties
- Measurement temperature: 0, 10, 23, 40, 80 degree C.

Notes: This data represents examples of measured values and not guaranteed values. They do not guarantee compatibility with the applications described in these documents. Please confirm compatibility with your application prior to use. We retain all rights, including copyrights, for the contents of these documents. Copying, reprinting, and use for purposes other than originally intended are strictly prohibited without our prior expressed permission. Contact details are provided at the end of this document. Please do not hesitate to contact us for any inquiry.
Re-peeling properties

<table>
<thead>
<tr>
<th>Substrates</th>
<th>No.5000N(C)</th>
<th>Existing lines</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Peeling properties</td>
<td>Adhesive residue</td>
</tr>
<tr>
<td>Stainless steel plate</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Aluminum plate</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>PP plate</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>ABS plate</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Acrylic plate</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>PST plate</td>
<td>○</td>
<td>○</td>
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<tr>
<td>PC plate</td>
<td>○</td>
<td>△</td>
</tr>
<tr>
<td>PVC plate</td>
<td>○</td>
<td>△</td>
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<tr>
<td>PET plate</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Glass plate</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>

Peeling properties
○: Peels without tearing
×: Tears when peeled

Adhesive residue
○: No adhesive residue
△: Some adhesive residue
×: Large amount of adhesive residue

【Peeling properties test method】
Backing: 5-mm thick urethane foam
Tape thickness: 3 mm
Maintenance conditions: 60°C, 90% RH
Peeling speed: 300 mm/min
Peeling angle: 90 degree

【Adhesive residue test method】
Tape area: 20 mm
Backing: PET #25
Peeling speed: 300 mm/min
Peeling angle: 180 degree

Tape strength

(Unit: N/10mm)
Tape width: 10mm
Peeling speed: 100mm/min
Measurement condition: 23 degree C. x 50% RH
Precautions when using

● Remove all oil, moisture and dirt from the surface of the substrate before applying.
● The tape employs pressure-sensitive adhesive. Be sure to apply pressure with a roller or press when applying. Failure to do so could affect properties or appearance.
● The tape may not adhere well to significantly uneven or distorted surfaces. Level off the surface as much as possible before applying.
● Because it is very thin, you should avoid applying large loads for at least several hours following application.

Precautions when storing

● Be sure to keep the tape in its box when not using.
● Keep in a cool dark place not exposed to direct sunlight.

Safety precautions

⚠️ WARNING

● Make sure the product is suitable for the application (objective and conditions) before attempting to use. The tape may come off depending on the substrate to which it is applied or conditions under which it is applied.
● Use in combination with another method of joining if there is possibility of an accident.

Published in March 16, 2015