

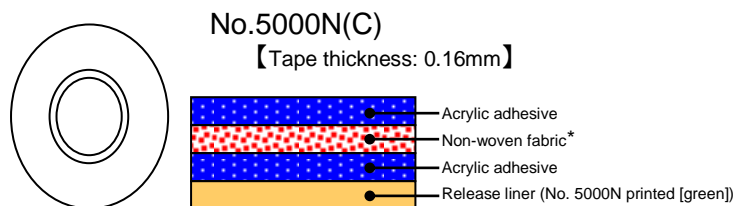
Double-coated adhesive tape

No.5000N(C)

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)

【Tape thickness: 0.16mm】

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 ten 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

Tape thickness (mm)	Width (mm)	Length (M)
0.16	3 - 1,200	50

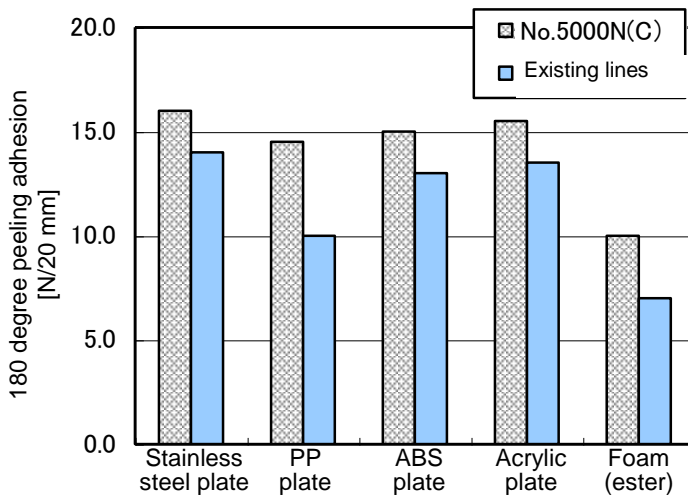
For more details contact the person in charge

No. 5000N(C) 10-P-0013_E (1/5)

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Properties

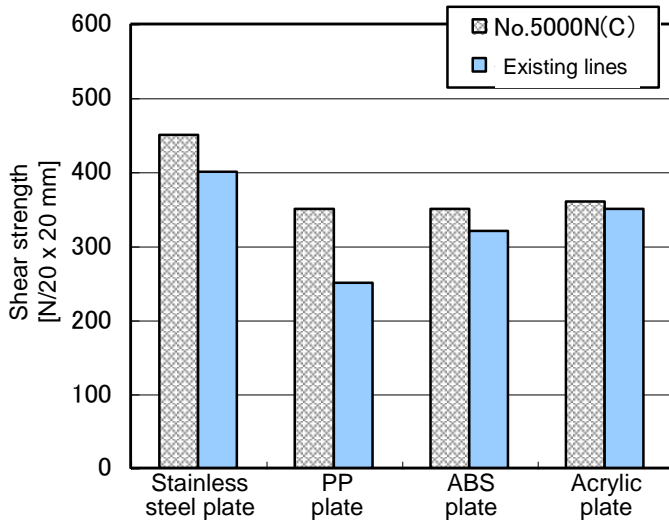
● 180 degree peeling adhesive strength for each substrates



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

Substrates	No.5000N(C)	Existing lines
Stainless steel plate	16.0	14.0
Aluminum plate	15.0	13.0
PP plate	14.5	10.0
ABS plate	15.0	13.0
Acrylic plate	15.5	13.5
PSt plate	16.0	12.5
PC plate	16.0	15.5
PVC plate	19.0	17.0
PET plate	15.0	13.0
Glass plate	14.5	14.0
Foam (ester)	10.0	7.0
Foam (ether)	7.0	5.0

● Shear strength for each substrates



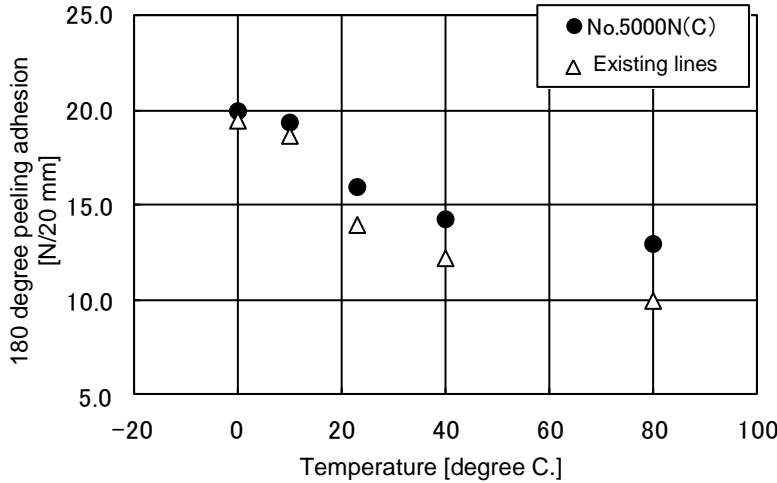
(Unit: N/20 mm x 20 mm)
 Peeling speed: 50 mm/min
 Measurement condition: 23 degree C. x 50% RH

Substrates	No.5000N(C)	Existing lines
Stainless steel plate	450	400
Aluminum plate	400	380
PP plate	350	250
ABS plate	350	320
Acrylic plate	360	350
PSt plate	400	400
PC plate	410	400
PVC plate	500	500
PET plate	400	380
Glass plate	500	450

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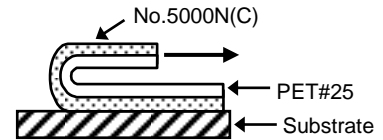
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● 180 degree peeling adhesion for each temperature

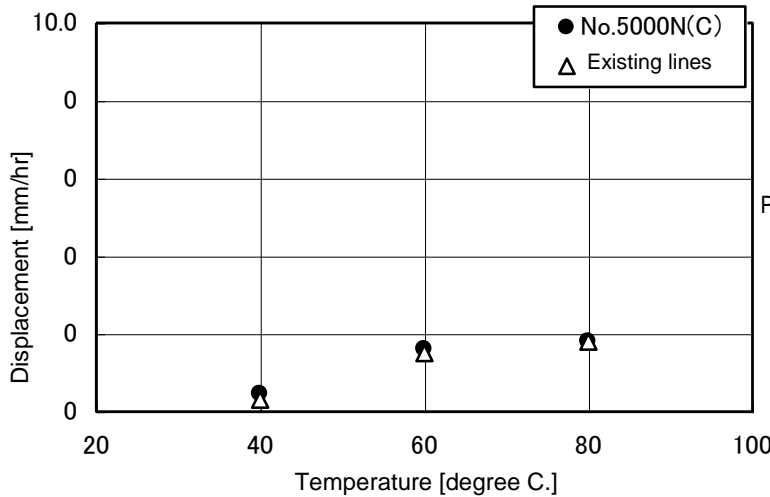


Good
↑
Properties
↓
Bad

(Unit: N/20 mm)
Backing: PET #25
Substrate: Stainless steel plate
Peeling speed: 300 mm/min
Peeling angle: 180 degree
Measurement temperature: 0, 10, 23, 40, 80 degree C.

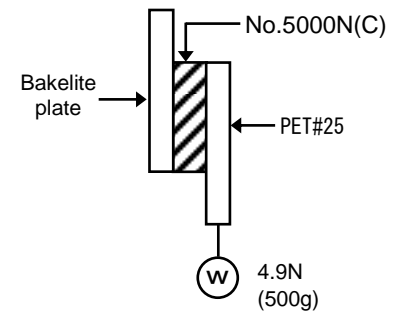


● Holding power

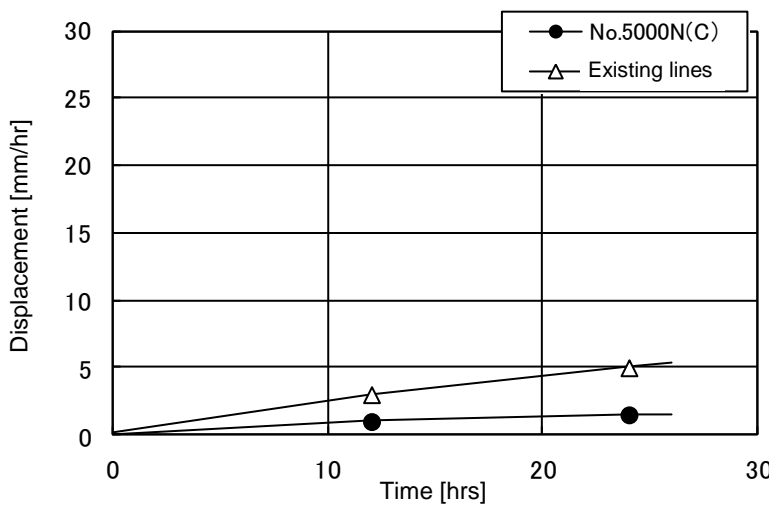


Bad
↑
Properties
↓
Good

(Unit: mm/hr)
Application area: 20 x 10 mm
Backing: PET #25
Substrate: Bakelite
Measurement temperature: 40, 60, 80 degree C.

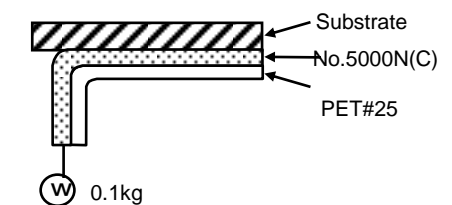


● Static load peeling



Bad
↑
Properties
↓
Good

(Unit: mm/24hr)
Tape width: 20 mm
Backing: PET #25
Substrate: Stainless steel plate



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● Re-peeling properties

Substrates	No.5000N(C)		Existing lines	
	Peeling properties	Adhesive residue	Peeling properties	Adhesive residue
Stainless steel plate	○	○	×	×
Aluminum plate	○	○	×	○
PP plate	○	○	×	×
ABS plate	○	○	×	×
Acrylic plate	○	○	○	○
PSt plate	○	○	×	×
PC plate	○	△	×	×
PVC plate	○	△	×	×
PET plate	○	○	×	×
Glass plate	○	○	×	×

Peeling properties

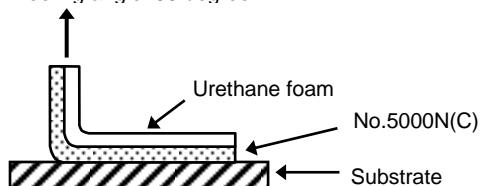
- : Peels without tearing
- × : Tears when peeled

Adhesive residue

- : No adhesive residue
- △ : Some adhesive residue
- × : Large amount of adhesive residue

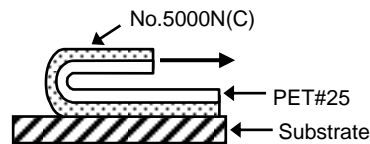
【Peeling properties test method】

Backing: 5-mm thick urethane foam
 Tape width: 3 mm
 Maintenance conditions: 60°C, 90% RH
 Peeling speed: 300 mm/min
 Peeling angle: 90 degree

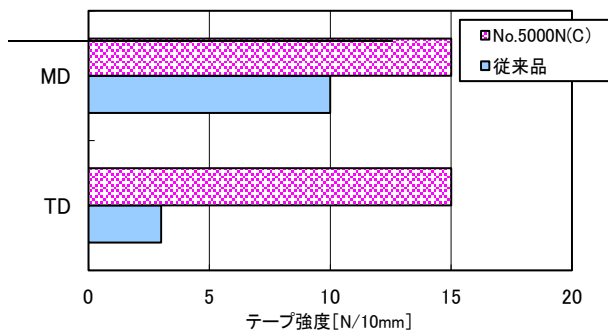


【Adhesive residue test method】

Tape area: 20 mm
 Backing: PET #25
 Peeling speed: 300 mm/min
 Peeling angle: 180 degree



● Tape strength



Existing lines

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

Tape strength [N/10 mm]

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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
<ul style="list-style-type: none">● 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 2019

No. 5000N(C) 10-P-0013_E (5/5)

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