

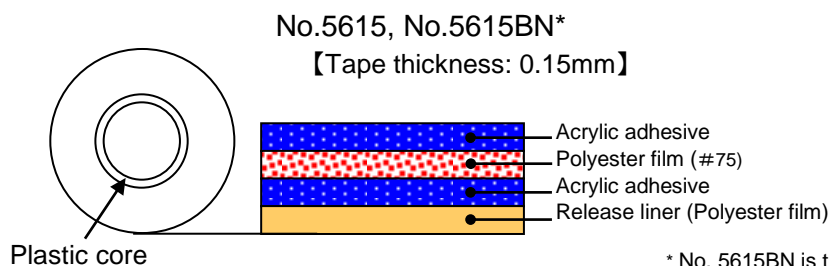
Double-coated adhesive tape

No.5615, No.5615BN

Outline

Nitto Denko No. 5615 and No. 5615BN are 0.15 mm-thick double-coated adhesive tapes of acrylic adhesive and with PET carrier. Employing a polyester film release liner and plastic core, the double-coated adhesive tapes are ideal for bonding applications such as peripheral parts of LCD backlight modules.

Structure



* No. 5615BN is the black version of No. 5615.
Uses black polyester film.

Features

- Offers strong bonding for housing, reflective sheets used for LCD backlight modules.
- Uses polyester release liner and plastic core. Tape structure minimizes dust emission.
- Adheres well to plastics.
- Halogen-free type. (We do not use chloride compounds on purpose for this product.)
- The ten hazardous materials restricted by the RoHS directive are not compounded.

Applications

- Fixing of reflective sheets used for LCD backlight modules for digital cameras and cellular telephones.
- Fixing of parts for compact home appliances

Standards Size

Tape thickness (mm)	Width (mm)	Length (m)
0.15	16~500	100

For more information, please contact us.

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Properties

● 180° peeling strength by substrate

Substrate	No.5615, No.5615BN
ABS plate	19.4
Polystyrene plate	22.1
Acrylic plate	23.3
Polycarbonate plate	23.3
Polyester film	24.3
Stainless steel plate	21.3
Aluminum plate	22.8
Glass plate	23.8

(Unit: N/20mm)

Lining material: PET#25

Peeling speed: 300mm/min

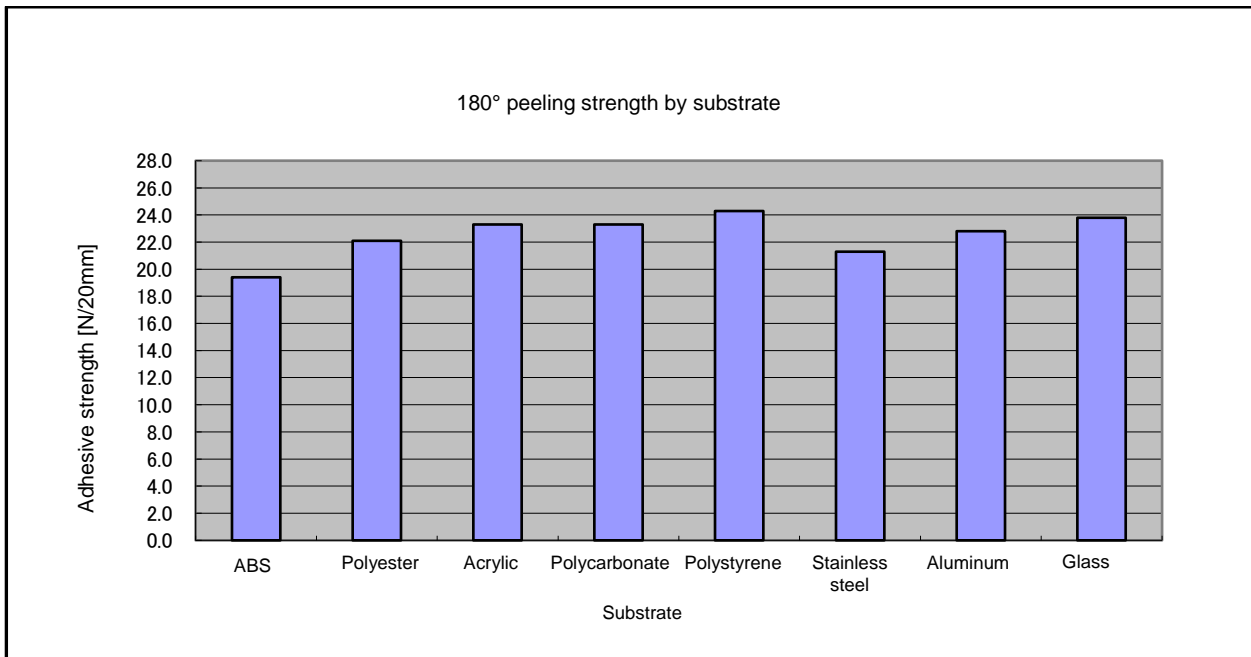
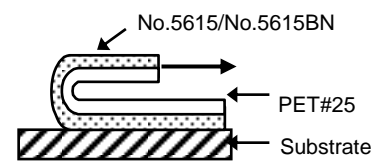
Peeling angle: 180°

Measurement temperature: 23°C, 50%RH

Pressure application conditions:

1 pass back and forth with 2-kg roller

<Test method>



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Properties

● 180° peeling strength by temperature

Temperature	No.5615, No.5615BN
0°C	22.0
10°C	22.7
23°C	21.3
40°C	18.8
60°C	16.3
80°C	12.9

(Unit: N/20mm)

Lining material: PET#25

Peeling speed: 300mm/min

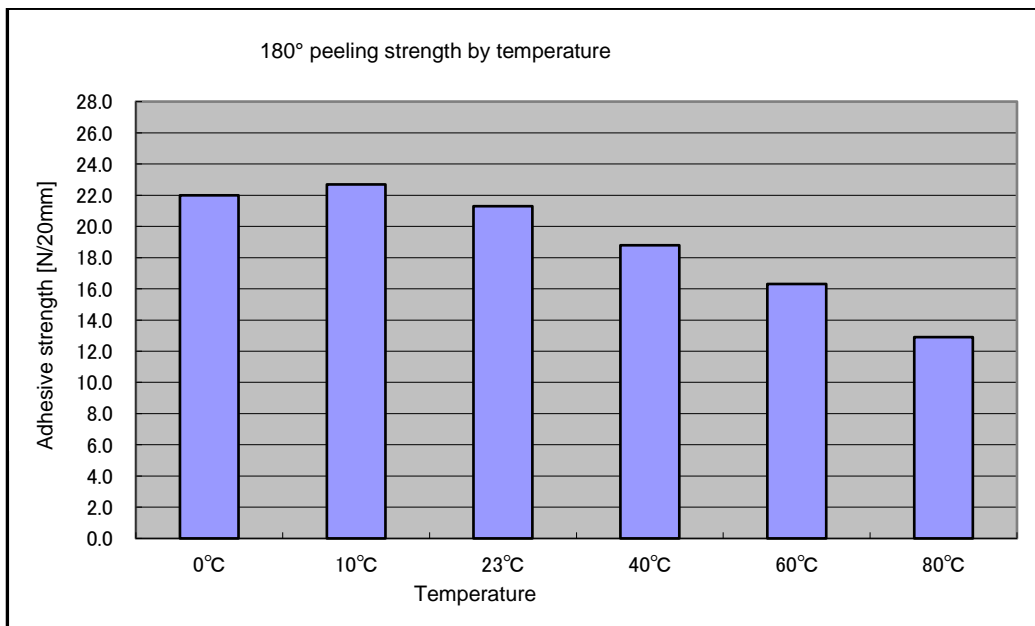
Peeling angle: 180°

Measurement temperature: 0°C, 10°C, 23°C, 40°C,
60°C, 80°C

Application under various temperatures

→ Measurement under various temperatures

Substrate: Stainless steel plate



● Holding power

Temperature	No.5615, No.5615BN
40°C	0.4
80°C	1.0

(Unit: mm/hr)

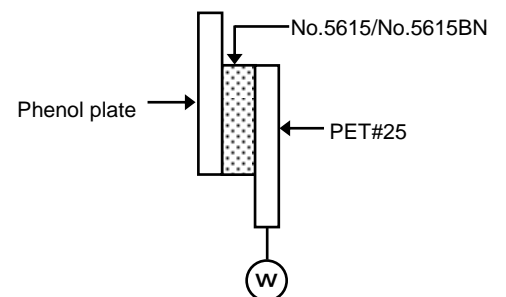
Measurement temperature: 40, 80°C

Application area: 10mm x 20mm

Load: 4.9N (500g)

Substrate: Phenol resin plate

<Test method>



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Properties

● Shear strength

Temperature	No.5615, No.5615BN
23°C	640

(Unit: N/20mmx20mm)

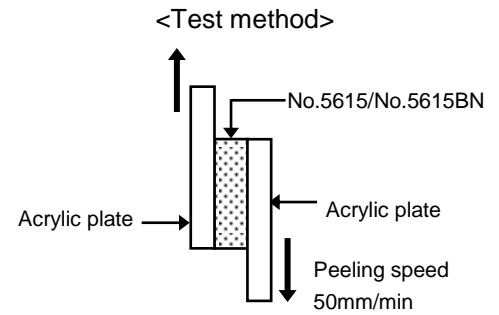
Substrate: Acrylic plate/acrylic plate

Tape area: 20mm × 20mm

Peeling speed: 50mm/min

Measurement temperature: 23°C, 50%RH

Measurement method: A specimen is prepared and shear strength is measured after allowing it to set 30 minutes.



● 180° peeling strength by pressure

Pressure	No.5615, No.5615BN
0.1 kg	19.1
0.5 kg	20.7
2 kg	21.3
5 kg	21.8

(Unit: N/20mm)

Lining material: PET#25

Peeling speed: 300mm/min

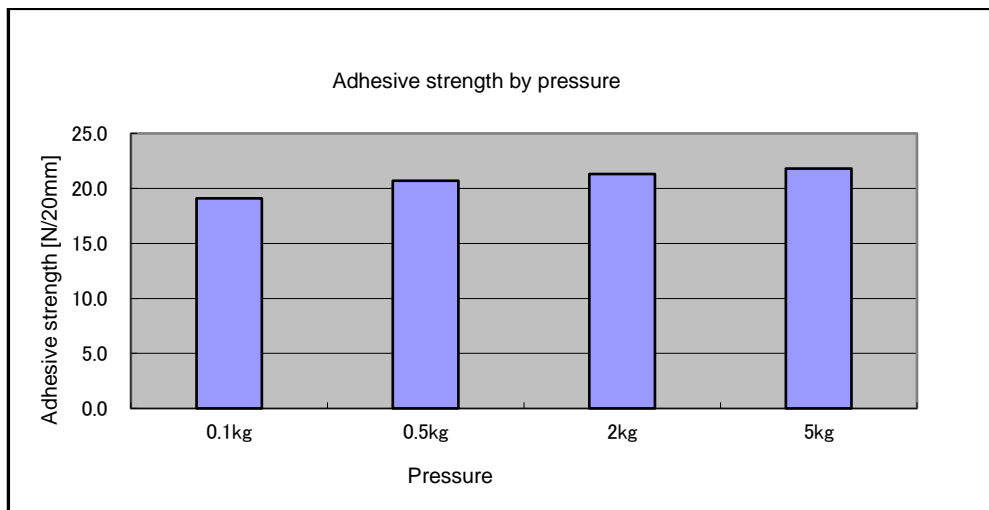
Peeling angle: 180°

Measurement temperature: 23°C, 50%RH

Pressure application conditions:

0.1kg, 0.5kg, 2kg, 5kg

1 pass back and forth with 2-kg roller



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Properties

● 180° peeling strength after application (increase)

Temperature	Time	No.5615, No.5615BN
23°C	0.5 hrs	21.3
	4 hrs	23.1
	12 hrs	23.3
	24 hrs	24.1
	48 hrs	25.0
	72 hrs	25.5

(Unit: N/20mm)

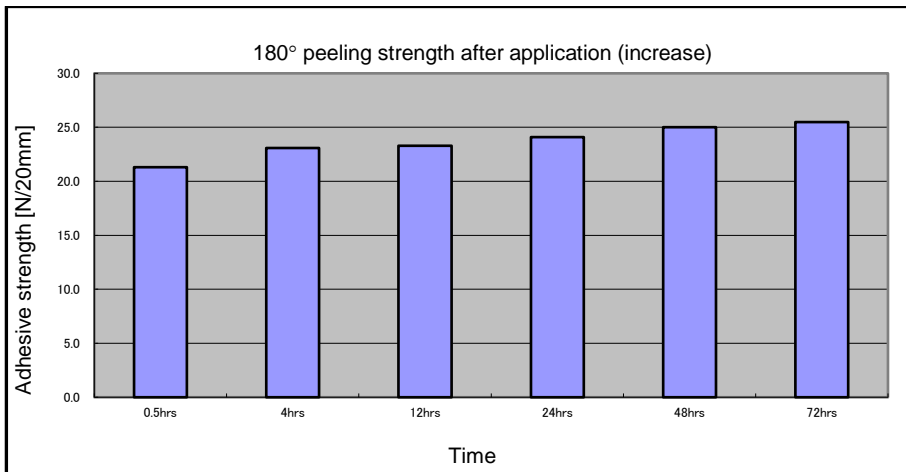
Lining material: PET#25

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: 23°C, 50%RH

Substrate: Stainless steel plate



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Properties

- 180° peeling strength (change after application)

Temperature	Time	No.5615, No.5615BN
23°C	1 day	24.1
	14 days	28.3
	30 days	29.1
40°C, 92% RH	1 day	27.4
	14 days	28.1
	30 days	30.3
50°C	1 day	28.4
	14 days	31.3
	30 days	33.6
70°C	1 day	29.4
	14 days	31.6
	30 days	35.2

(Unit: N/20mm)

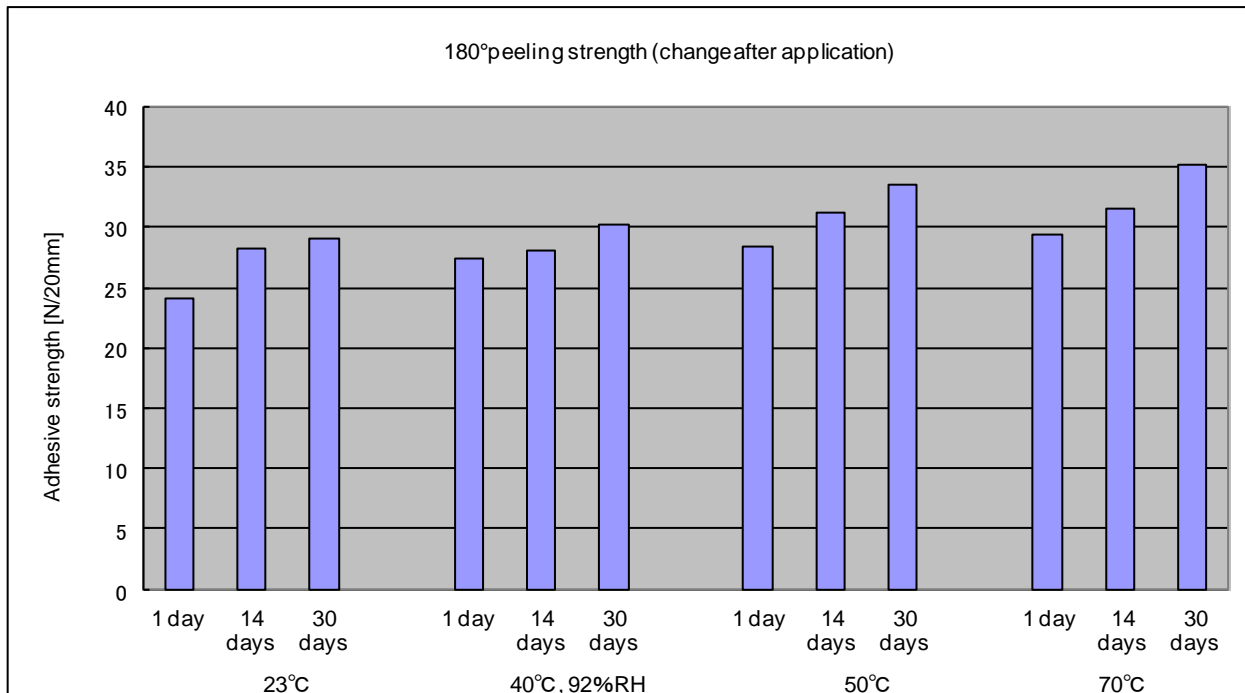
Lining material: PET#25

Peeling speed: 300mm/min

Peeling angle: 180°

Measurement temperature: 23°C, 50%RH

Substrate: Stainless steel plate



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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.
- Avoid applying a large load to the tape for 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 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

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