

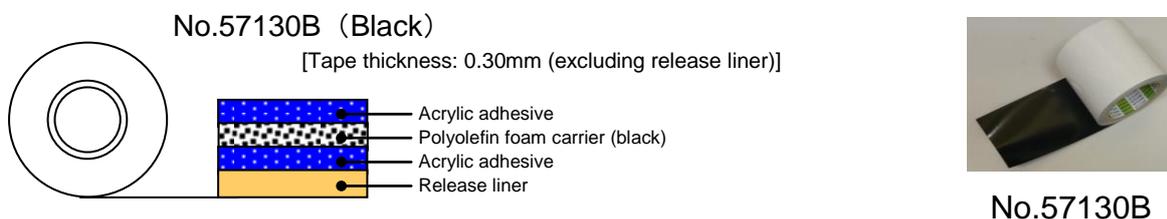
Double-coated adhesive tape with superior water proof property

No.57130B

Outline

Nitto Denko No.57130B is a double-coated adhesive tape consisting of a flexible foam carrier coated acrylic adhesive that is applicable to a wide variety of substrates. No.57130B offers superior water proof and adhesion to irregular surface. The tape can be strongly adhered to metals and several plastics, and also superior bonding to polypropylene plate that is not usually easy to bonding. The tape is halogen-free type.

Structure



Features

- Flexible and thinner foam is used as tape carrier.
- Excellent water proof and adhesion to irregular surface.
- Excellent bonding to metals and plastics.
- Excellent bonding to Polypropylene plates.
- Halogen-free type. (Chloride compounds are not used for this product.)
- 6 restricted substances by RoHS are not contained.

Applications

- Fixing of parts for mobile phones and electronic products.
- Fixing of parts in regard to purpose of water proof.
- Fixing of name plates.

Sizes

Tape thickness (mm)	Width (mm)	Length (M)
0.30	20-960	50

For more information, please contact us.

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Properties

- 180 degree peeling adhesion for each substrate

Substrate	No.57130B
Stainless steel	21.0
PC plate	22.0
Acrylic plate	21.5
ABS plate	18.5
Glass plate	21.5
PET plate	21.8
PP plate	17.7

[unit: N/20mm]

Sample width: 20mm

Backing material: PET#25

Application condition:

1 pass back and forth with a 2 kg roller

at 23 degree C/50%RH

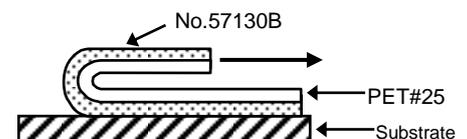
Applying temperature: 23 degree C/50%RH

Aging condition: 23 degree C/50%RH × 30min

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement condition: 23 degree C/50%RH



- 180 degrees peeling adhesion for each application pressure

Roller weight	No.57130B
500g	21.0
2kg	21.0
5kg	21.0

[Unit: N/20mm]

Sample width: 20mm

Backing material: PET#25

Substrate: Stainless plate

Application condition:

1 pass back and forth with a

500g, 2kg, and 5kg at 23 degree C/50%RH

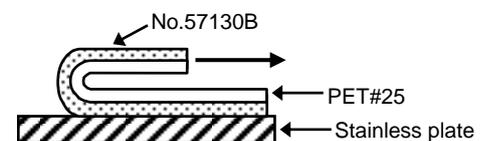
Applying temperature: 23 degree C/50%RH

Aging condition: 23 degree C/50%RH × 30min

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement condition: 23 degree C/50%RH



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Properties

● 180 degree peeling adhesion for each aging condition

Applying period	No.57130B
Immediately (1 min later)	19.0
30 minutes later	21.0
1 hour later	21.0
4 hours later	21.0
24 hours later	21.0
48 hours later	21.0
72 hours later	21.0
168 hours later	21.0

[unit: N/20mm]

Sample width: 20mm

Backing material: PET#25

Substrate: Stainless plate

Application condition:

1 pass back and forth with a 2 kg roller

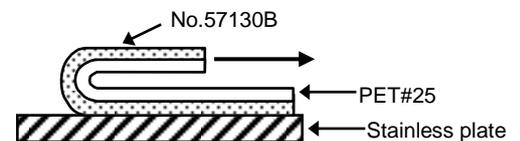
at 23 degree C/50%RH

Applying temperature: 23 degree C/50%RH

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement condition: 23 degree C/50%RH



● 180 degree peeling adhesion for each temperature

Temperature	No.57130B
-30 degree C	14.4
-20 degree C	26.5
0 degree C	22.8
23 degree C	21.0
40 degree C	20.5
60 degree C	19.1
85 degree C	18.6

(Unit: N/20mm)

Substrate: Stainless plate

Tape area: 20mm width

Backing: PET#25

1 pass back and forth with a 2kg roller

Applying condition:

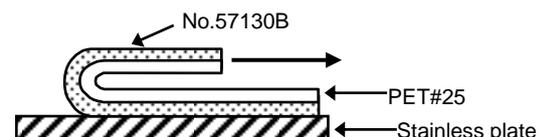
Measurement temperatures x 30min

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement temperature:

Laminate at 23 degree C x 50%RH and measure at -30,-20,0,23,40,60 and 85 degree C



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Properties

● Shear strength for each substrate

Substrate	No.57130B
Stainless steel	350
PC plate	350
Acrylic plate	350
ABS plate	350
Glass plate	350
PET plate	350
PP plate	350

(Unit: N/20mmx20mm)

Tape area: 20mm x 20mm

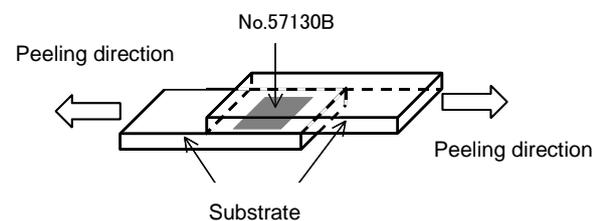
Application condition:

1 pass back and forth with a 5 kg roller

Measurement temperature: 23 degree C/50%RH

Applying condition: 23 degree C/50%RH x 30min

Peeling speed: 50mm/min



● Shear strength for each temperature

Temperature	No.57130B
-30 degree C	435
-20 degree C	425
0 degree C	380
23 degree C	350
40 degree C	300
60 degree C	240
85 degree C	200

(Unit: N/20mmx20mm)

Tape area: 20mm x 20mm

Substrate: Stainless plate

Application condition:

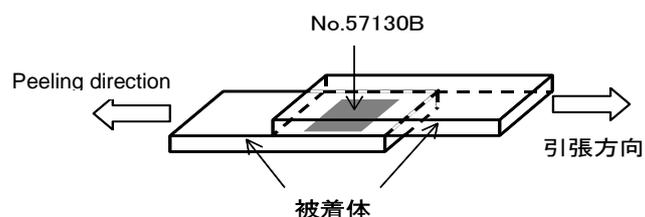
1 pass back and forth with a 5 kg roller

Applying condition: 23 degree C/50%RH x 30min

Peeling speed: 50mm/min

Laminate at 23 degree C x 50%RH and

measure at -30,-20,0,23,40,60 and 85 degree C



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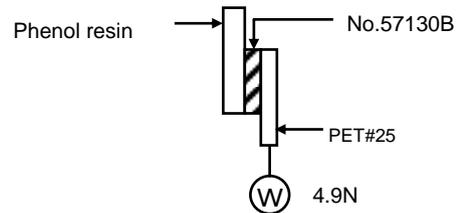
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Properties

●Holding power

Temperature	No.57130B
40 degree C	0.7
80 degree C	1.6

Peeling direction
(Unit: mm/hr)
Substrate: Phenol resin
Backing: PET#25
Application method:
1 pass back and forth with a 5kg roller
Application time: 23 degree C/50%RH
Applying conditions:
Measurement Temp x 30min
Measurement temperature: 40 and 80 degree C
Laminated area: 20mm x 10mm
Load: 4.9N (500g)
Loading time: 1 hour



●180 degree peeling strength for each application pressure

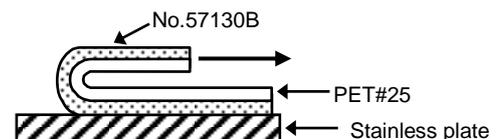
-Curing under each environment after application (Durability)

Condition		No.57130B
Initial (23degreeC/50%RH x 30min)		21.0
-30 degree C x 30 days		21.2
80 degree C	1 day	21.2
	7 days	21.3
	14 days	21.8
	30 days	21.3
40 degree C /92%RH	1 day	21.3
	14 days	21.8
	30 days	21.5
60 degree C/90%RH x 30 days		20.7
Thermal shock [100 cycles]*1		23.2
Thermal shock [40 cycles]*2		24.8

(Unit: N/20mm)
Substrate: Stainless plate
Backing material: PET#25
Application condition:
1 pass back and forth with a 2 kg roller
Curing condition: See the left table
Peeling speed: 300 mm/min
Peeling angle: 180 degree
Measurement temperature: 23 degreeC/50%RH

*1: Thermal shock condition
[-40 degree C x 30min <-> 90 degree C x 30min] x 100 cycles

*2: Thermal cycling condition
[-20 degree C x 6hr->(1hr) ->
60 degree C/95%RH x 6h -> (1hr) ->] x 40 cycles



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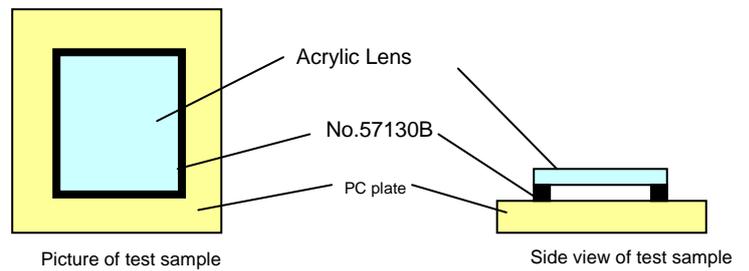
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Properties

- Water proof test (based on IPX7, JIS code C0920, IEC code 60529)

	No.57130B
Water proof test	IPX7 level

Lens size: 40 x 60mm
 Tape size: 40 x 60mm (1mm width window shape)
 Application condition:
 1 pass back and forth with a 2kg roller
 Applying temperature: 23 degree C/50%RH
 Aging condition: 23 degree C/50%RHX30min.
 Test condition:
 Based on IPX7 (1m water bathX30min dipping)
 Water temperature: 23degree C



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Precautions when using

- Remove all oil, moisture and dirt from the surface of the substrate before applying.
- Since the tape is pressure-sensitive adhesive, be sure to apply enough pressure with a roller or press when applying. Otherwise it might be affected to its properties and appearance.
- The tape may not adhere well to extremely uneven or distorted surfaces. Enough Leveling off the surface should be required before applying.
- It takes certain time to get full adhesive strength after applying, keep away the tape from any stress for a several hours after applying.

Precautions when storing

- Please be sure to keep the tape in its box when not using.
- Please keep in a cool and dark place away from 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.

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