

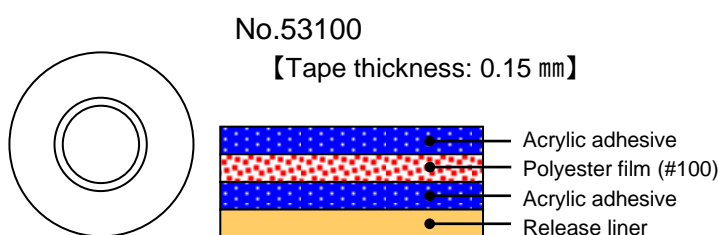
Double-coated adhesive tape

No.53100

Outline

Nitto Denko No. 53100 is a double-coated adhesive tape that features superior form stability after being converted to part shape, and can be easily positioned when applying. Consisting of a polyester film base (#100) coated on both sides with acrylic adhesive, the tape adheres well to foams and plastics.

Structure



Features

- Superior form stability after being converted to part shape, and can be easily positioned when applying.
- Adheres firmly to various types of dustproof sheets. (Adheres well to polyolefin and polyurethane foam.)
- Uses polyester film so tape thickness is uniform.
- Halogen-free* type. (*Chloride compounds are not used for this product.)
- The ten hazardous materials restricted by the RoHS directive are not compounded.

Applications

- Fixing of LCD cushioning and film for cellular telephones and digital cameras.
- Fixing of nameplates for compact home appliances
- Fixing of film and foam inside home appliances

Standards Sizes

Tape thickness (mm)	Width (mm)	Length (m)
0.15	50, 100, 250	50

For more information, please contact person in charge.

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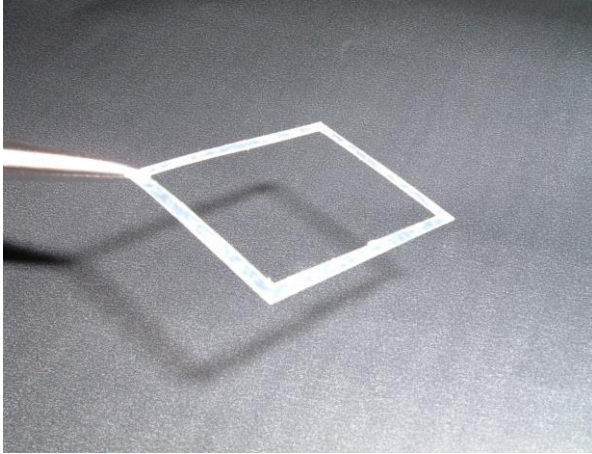
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Properties

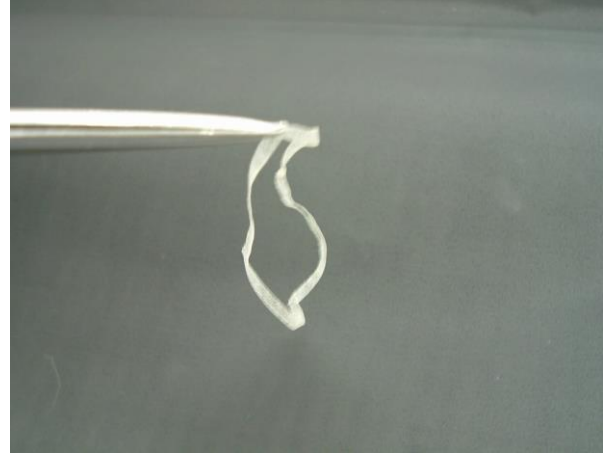
· Form stability after conversion

(1) Double-coated adhesive tape alone

〈No. 53100〉

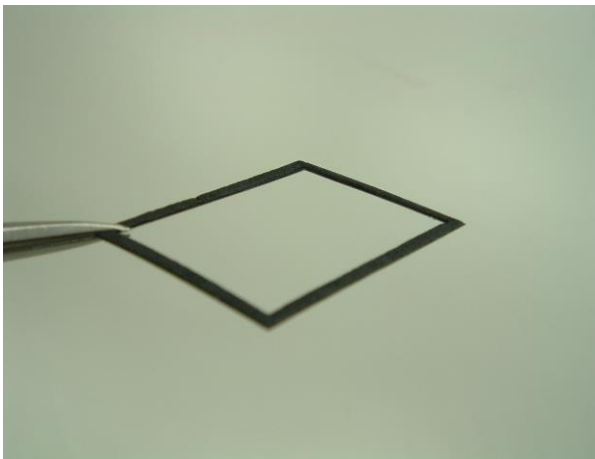


〈150 micro m non-woven fabric base
Double-Coated Adhesive Tape〉

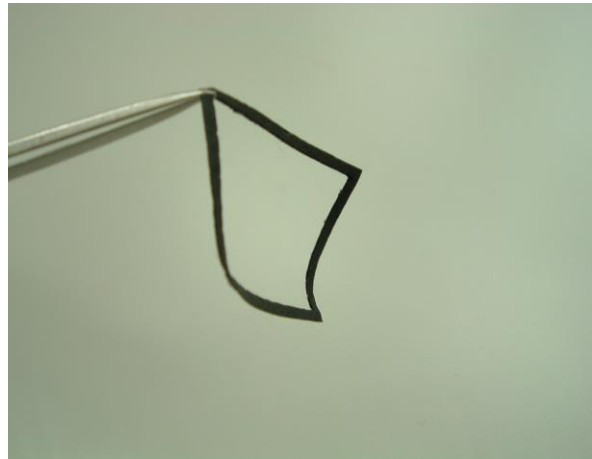


(2) Thin layer polyurethane foam + Double-Coated Adhesive Tape

〈No. 53100〉



〈150 micro m non-woven fabric base
Double-Coated Adhesive Tape〉



〈Specimen shape〉

- Size: 30 x 40 mm (2-mm wide punched out tape)
- Polyurethane foam, 1 mm thick

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Properties

· 180 degree peeling adhesion by substrates

Substrate	No.53100
ABS plate	7.0
PSt plate	9.8
Acrylic plate	10.6
PC plate	10.5
PP plate	7.1
Stainless steel plate	7.6
Aluminum plate	6.7
Glass plate	10.0
Polyurethane foam	3.4 (foam breakdown)
Polyolefin foam	5.4 (foam breakdown)
Flame-retardant polyolefin foam	5.0 (foam breakdown)

(Unit: N/20 mm)

Backing: PET#25

Peeling speed: 300mm/min

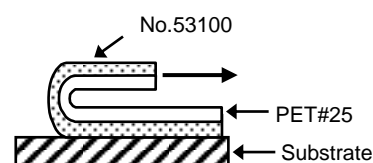
Peeling angle: 180 degree

Measurement temperature: 23 degree C. x 50%RH

Application pressure conditions:

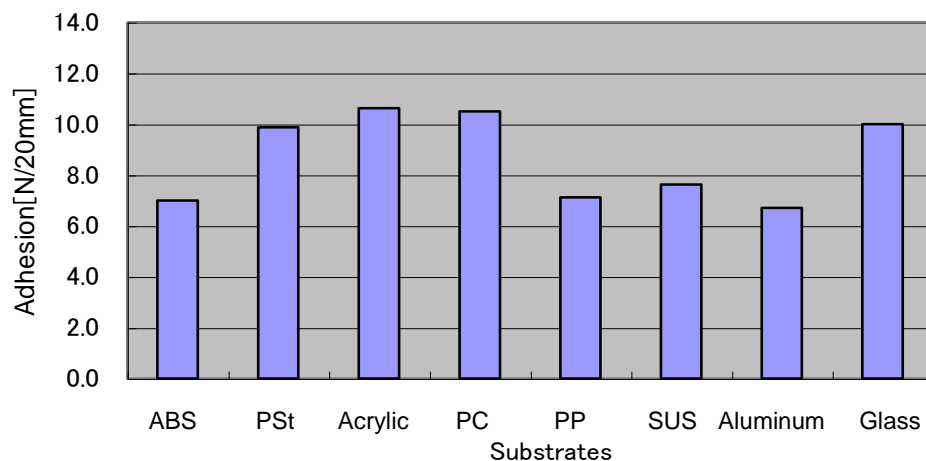
1 pass back and forth with 2-kg roller

〈Test method〉



[Conforms to JIS Z-0237]

180 degree peeling adhesion by substrates



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Properties

· 180 degree peeling adhesion by temperatures

Temperatures	No.53100
10 degree C.	5.5
23 degree C.	7.6
40 degree C.	6.9
60 degree C.	7.0
80 degree C.	6.5

(Unit: N/20mm)

Backing: PET#25

Peeling speed: 300mm/min

Peeling angle: 180 degree

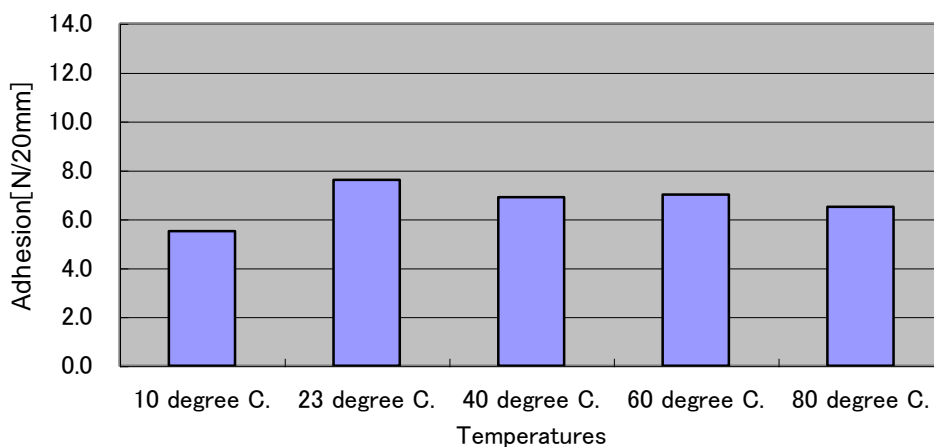
Measurement temperature: 10, 23, 40, 60, 80 degree C.

Application under various temperatures →

Measurement under various temperatures

Substrate: Stainless steel plate

180 degree peeling adhesion by temperatures



· Holding power

Temperatures	No.53100
40 degree C.	0.4
80 degree C.	0.5

(Unit: mm/hr)

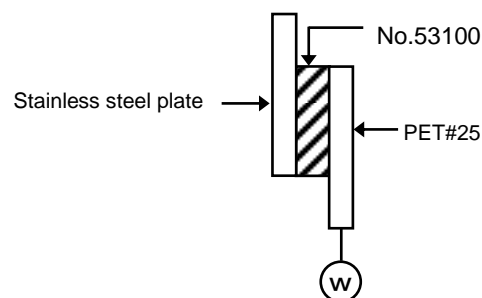
Measurement temperature: 40, 80 degree C.

Application area: 10mm x 20mm

Load: 500g

Substrate: Stainless steel plate

〈Test method〉



No. 53100 10-P-0064_E (4/6)

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Properties

- 180 degree peeling adhesion after application (adhesion increase)

		No. 53100
23 degree C.	30 min	7.6
	4 hrs	8.7
	12 hrs	10.2
	24 hrs	10.6
	48 hrs	10.9
	72 hrs	11.1

(Unit: N/20 mm)

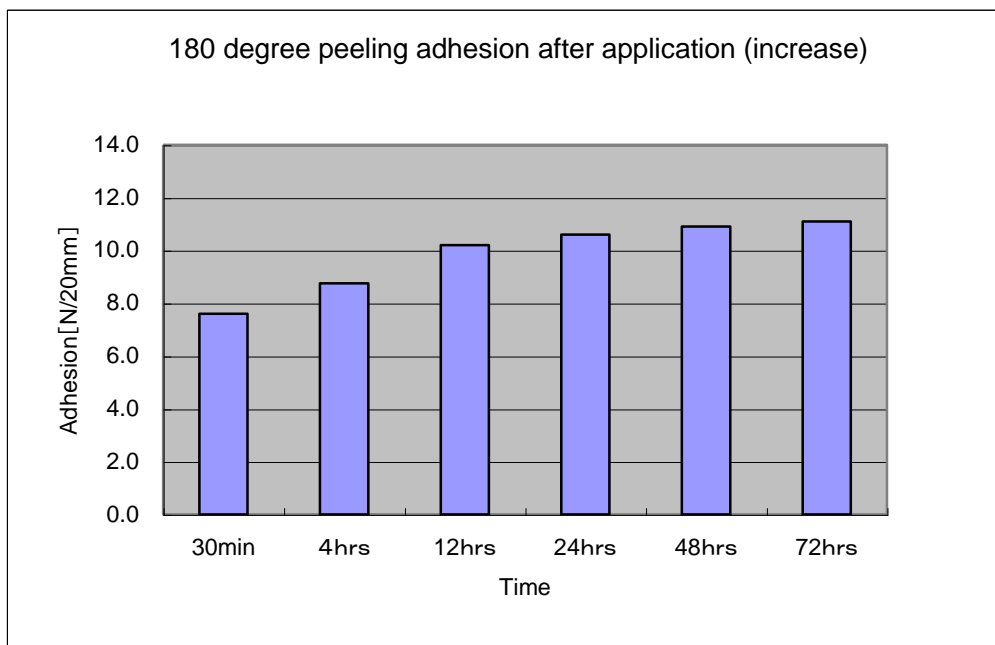
Baking: PET#25

Peeling speed: 300mm/min

Peeling angle: 180 degree

Measurement temperature: 23 degree C. x 50%RH

Substrate: Stainless steel plate



No. 53100 10-P-0064_E (5/6)

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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. 53100 10-P-0064_E (6/6)

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