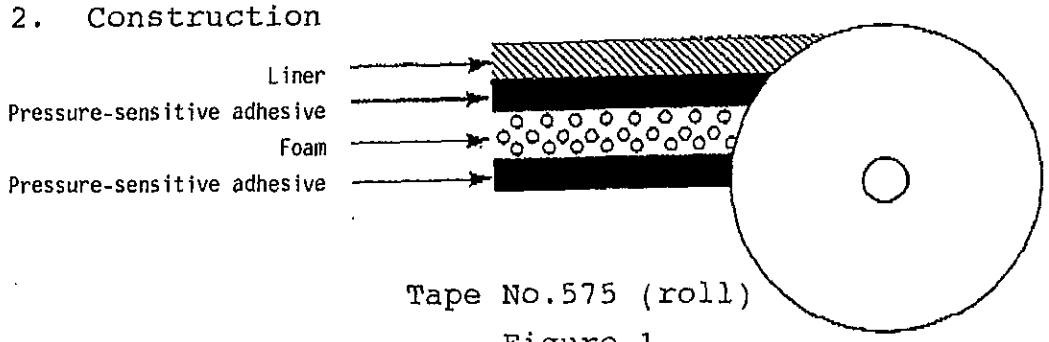
DOUBLE-COATED ADHESIVE TAPES No.575 AND No.576X

1. Outline

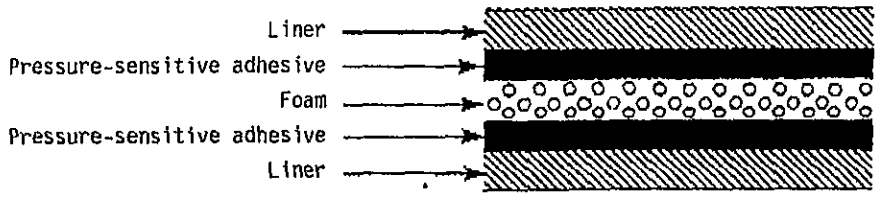
The NITTO double-coated adhesive tapes No.575 and No.576X are made by applying the high-tackiness pressure-sensitive adhesive to both surfaces of the special flexible foamed substrate (base) and afford excellent holding strength in many applications.

2. Construction



Tape No.575 (roll)

Figure 1



(Flat sheet)

Figure 2

3. Advantages

3.1 As the foamed substrate (base) is used, excellent adhesion to substrates (objects) is ensured.

3.2 The tapes have high holding strength, namely high holding ability.

4. Applications

4.1 Fixing of home-use hangers for clothes, mounting of hanger boards

4.2 Installation of small electric parts

4.3 Fixing of aromatics cases and paper holders

4.4 Installation of medicine cabinets and wiring fittings

4.5 Fixing of name plates and moldings

5. Standard sizes

Table 1

Type	Thickness (mm)	Width (mm)	Length (m)
No. 575	1.2	25.450	30
No. 576X	1.2	450	1

6. Properties

6.1 Adhesive strength on various substrates

(1) Testing method: 90° peeling method
(2) Measurement temperature: 20°C
(3) Peeling rate: 300 mm/min

Table 2

(Unit: g/15 mm)

Substrate \ Type	No. 575	No. 576X	Competitor's product
Acryl coated plate	Foam destruction (*)	Foam destruction)	Foam destruction
ABS plate	Foam destruction	Foam destruction	Foam destruction
Decorative plywood	Foam destruction	Foam destruction	Foam destruction
Glass plate	Foam destruction	Foam destruction	Foam destruction
Polyethylene plate	Foam destruction	Foam destruction	1,630
Stainless steel plate	Foam destruction	Foam destruction	Foam destruction

(*) Foam destruction: 2,200 to 2,700

6.2 Temperature sensing characteristics

(1) Testing method: 90° peeling method
(2) Substrate: Stainless steel (JIS-Z-1528-6-7-2)
(3) Measurement temperature: 0°C, 20°C, 40°C
(4) Peeling rate: 300 mm/min

Table 3

(Unit: g/15 mm)

Measurement temperature \ Type	No. 575	No. 576 X	Competitor's product
0°C	Foam destruction (*)	Foam destruction)	900 to 0
20°C	Foam destruction	Foam destruction	Foam destruction
40°C	Foam destruction	Foam destruction	Foam destruction

(*) Foam destruction: 2,200 to 2,700

6.3 Shear strength

(1) Testing method: See Figure 3.
(2) Substrate: Stainless steel (JIS-Z-1528-6-7-2)
(3) Measurement temperature*: 0°C, 20°C, 40°C
(4) Peeling rate: 300 mm/min

* Bonding is performed at measurement temperature.

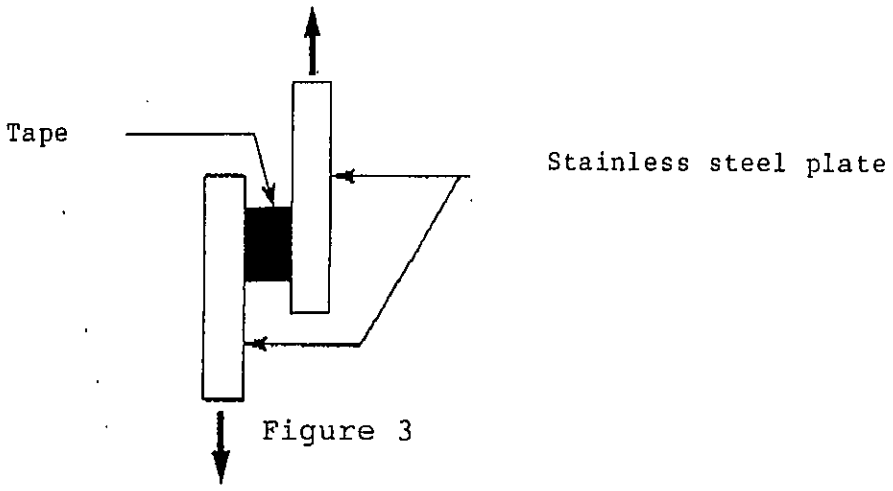


Figure 3

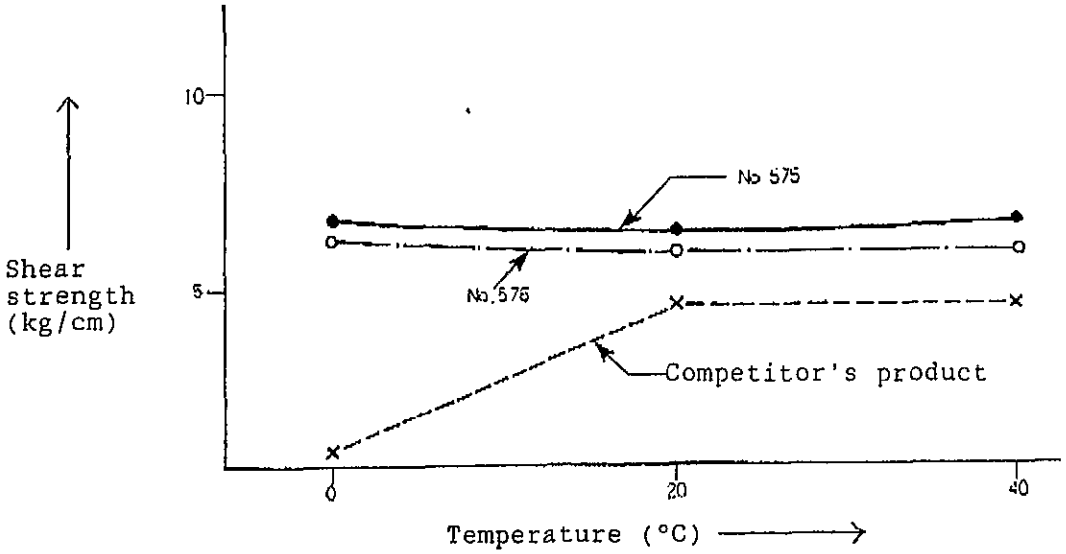


Figure 4

6.4 Storability

(1) Testing method: 90° peeling method
(2) Substrate: Stainless steel (JIS-Z-1528-6-7-2)
(3) Measurement temperature: 20°C
(4) Peeling rate: 300 mm/min

Table 4

(Unit: g/15 mm)

Conditions \ Type / Days		No. 575	No. 576 ℋ	Competitor's product
Normal temperature	10 days	Foam destruction (*)	Foam destruction	Foam destruction
	20 days	Foam destruction	Foam destruction	Foam destruction
	30 days	Foam destruction	Foam destruction	Foam destruction
35°C x 80%RH	10 days	Foam destruction	Foam destruction	Foam destruction
	20 days	Foam destruction	Foam destruction	Foam destruction
	30 days	Foam destruction	Foam destruction	Foam destruction
50°C	10 days	Foam destruction	Foam destruction	Foam destruction
	20 days	Foam destruction	Foam destruction	Foam destruction
	30 days	Foam destruction	Foam destruction	Foam destruction
70°C	10 days	Foam destruction	Foam destruction	Foam destruction
	20 days	Foam destruction	Foam destruction	900
	30 days	Foam destruction	Foam destruction	750

(*) Foam destruction: 2,200 to 2,700

6.5 Weatherability

(1) Testing method: Shear strength
(2) Substrate: Stainless steel plate (JIS-Z-1528-6-7-2)
(3) Measurement temperature: 20°C (after irradiation with ultraviolet ray carbon weatherometer)
(4) Peeling rate: 300 mm/min
(5) Ultraviolet ray irradiation: With ultraviolet ray carbon weatherometer

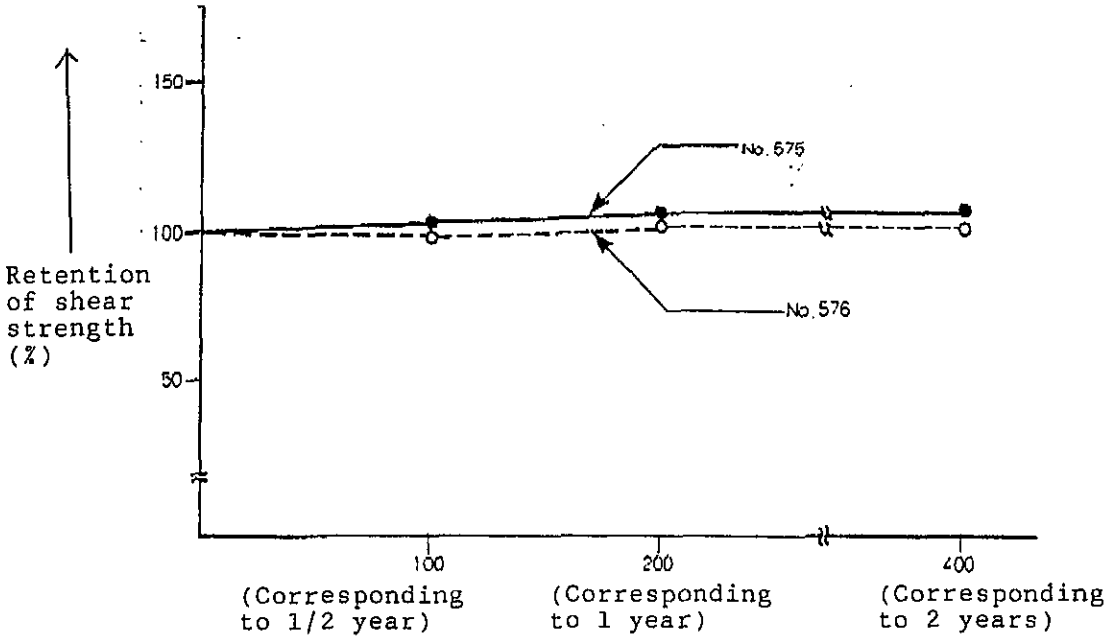


Figure 5

6.6 Holding ability

The stainless steel plates bonded as shown in Figure 6 can hold a load up to 180 g/cm^2 at room temperature for one year.

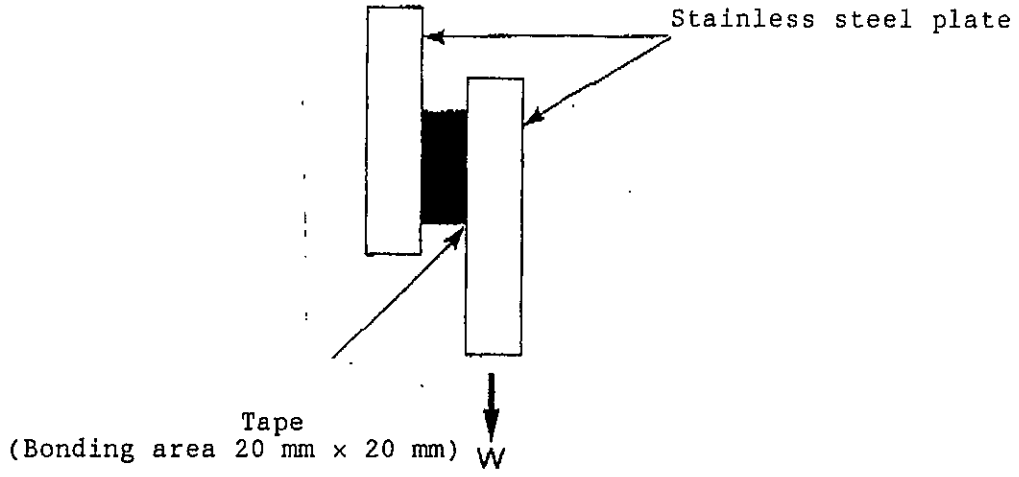


Figure 6 Holding ability

The holding ability changes depending on the following conditions:

(1) Direction of force applied to the tape
(2) Velocity of force applied to the tape (static or dynamic)
(3) Type of substrate
(4) Flatness of substrate surface

Especially, user must pay attention to the moment which may be applied and the influence of the flatness of substrate surface. When using the tapes, widen the bonding area, providing the safety factor (holding ability shown in Figure 6 x 1.5 to 3).

7. Cares when using the tapes

7.1 Thoroughly clean the substrate surface to remove oil, water and dirt.

7.2 Flatten the coarse and rough surfaces as smooth as possible.

7.3 Since the pressure-sensitive adhesive is used, apply a sufficient pressure to the tape so as to fit it tight to the substrate.

7.4 It is best to apply the tapes at room temperature 10 to 30°C.
After the tapes are once applied at normal temperature, their properties do not change even when they are subjected to influences of low or high temperature.

8. Cares when storing

8.1 Store the tapes in the cool dark place where the direct sunlight does not affect.

8.2 Store No.576 (sheet) without folding and bending.

9. Others

The data shown above are results of test which have been obtained in the Nitto's laboratories. These data are not used for any specification purpose. It is advisable to select the proper types of tape, taking into account the use conditions and purpose of use.