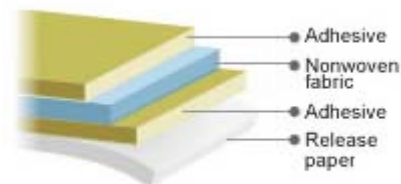


# Strong adhesive type double coated tapes UT1140

## Features

- Adhesive tape with lower environmental impact with UV curable manufacturing method (non solvent adhesive coating process).
- It has the adhesive power about twice G series (compared with our company), and it is suitable for bonding on plastic and a metallic side.
- It contributes to the diversification of the product design because it is excellent in the static load characteristic (practical characteristic) such as Curved surface bending and Stable weight peeling .

## Structure



Main component	Acrylic
Carrier	Nonwoven fabric
Color	Translucent
Adhesive thickness (μm)	About 400
Release paper thickness (μm)	About 140
Bonding strength (N/20mm) *	30
St'd size (width & length)	500mm × 50m

\* 90° peeling strength

## Suitable use

- Ideal for bonding plastic and metallic parts of front panels.

## Technical data

### 1. Bonding strength on various type of substrate (90° peeling)

<Test piece condition>

Tape width: 20mm

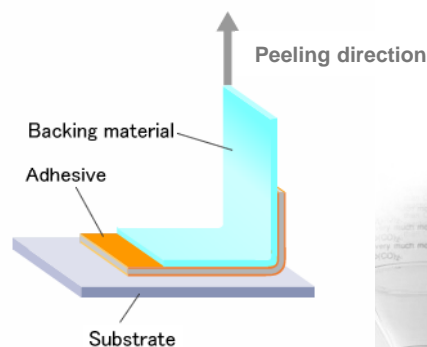
Bonding condition: One stroke with 2-kg roller

Measuring condition: 23°C ± 5°C 60% ± 20%RH

Peeling speed: 300mm/min

Backing material: 40μm Aluminum foil

[Left at RT for one day before measurement]



<90° peeling strength test>

(N/20mm)

<Results>

Substrate	SUS	ABS	Acrylic	HiPS	Steel plate
90° peeling strength	30.2	31.6	25.6	29.0	28.6

2. Bonding strength on various type of substrate (180° peeling)

<Test piece condition>

Tape width: 20mm

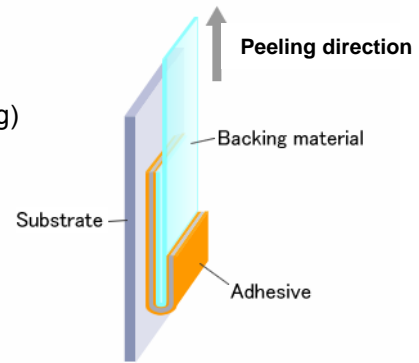
Bonding condition: One stroke with 2-kg roller

Measuring condition: 23°C ± 5°C 60% ± 20%RH

Peeling speed: 300mm/min

Backing material: 25µmPET

[Left at RT for one hour before measurement]



<180° peeling strength test>

<Results>

(N/20mm)

Substrate	SUS	ABS	Acrylic	HiPS	Steel plate
180° peeling strength	22.6	24.0	22.4	20.2	21.0

3. Holding power at different temperatures

<Test piece condition>

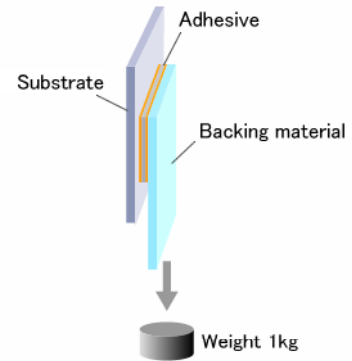
Substrate: Stainless steel plate (SUS304)

Bonding area: 25mm × 25mm

Bonding condition: One stroke with 2-kg roller

Backing material: 40µm Aluminum foil

[Left at RT for one hour and measure creep length after one hour application of 1-kg load at each temperature]



<Holding power test>

<Results>

Measurement temperature	40°C	80°C
Creep length (mm)	4.0	8.4

4. Curved surface bending

<Test piece condition>

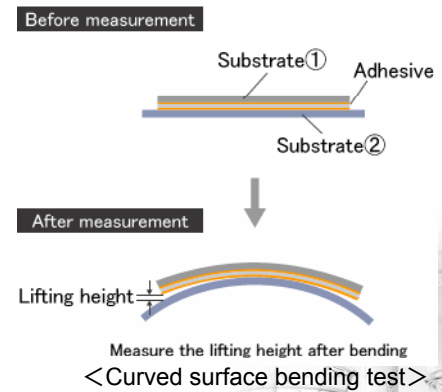
Substrate ①: Aluminum plate 0.5mm × 20mm × 150mm

Substrate ②: Polystyrene plate 2.0mm × 25mm × 200mm

Bonding condition: One stroke with 2-kg roller

Measuring condition: 50°C/80°C

[Left at RT for 24 hours, then lifting height of the edge after the elapsed time is measured]



Measure the lifting height after bending  
<Curved surface bending test>

<Results>

Measurement temperature		50°C					80°C				
		1 hr	3 hrs	5 hrs	8 hrs	24 hrs	1 hr	3 hrs	5 hrs	8 hrs	24 hrs
Lifting height (mm)	ABS/AL	0	0	0	0	0	0	0	0	0	0
	PS/AL	0	0	0	0	0	0	0	1.0	1.0	1.5

Note on the characteristic data given— Data on the characteristics of the products described in this catalog are based on the results of evaluations carried out by the company. This does not guarantee that the characteristics of the product conform with your usage environment. Before use, review the usage conditions based on evaluation data obtained from the equipment and substrates actually used.

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