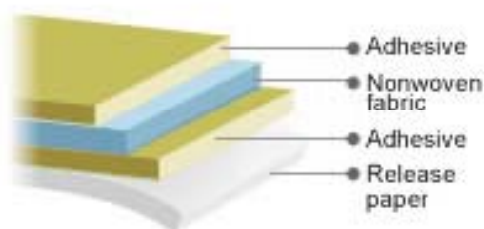


Strong adhesive type double coated tapes UT1600 series

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 side.
- It is possible to excel in heatproof, and to use it under the environment of 150°C.

Structure

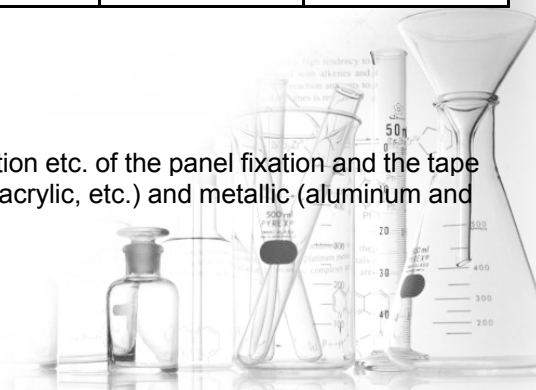


Product name	UT1615BU	UT1620BU	UT1625BU	UT1640BU	UT1670
Main component	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic
Carrier	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric	Nonwoven fabric
Color	Translucent	Translucent	Translucent	Translucent	Translucent
Adhesive thickness (μm)	About 150	About 200	About 250	About 400	About 700
Release paper thickness (μm)	About 130	About 130	About 130	About 130	About 130
Release paper color	Blue	Blue	Blue	Blue	White
Bonding strength (N/20mm) *	25	26	28	31	33
St'd size (width & length)	480mm × 50m	480mm × 50m	480mm × 50m	450mm × 50m	450mm × 20m

* 90° peeling strength

Suitable use

- It is suitable for the bonding usage of plastic of the wiring fixation etc. of the panel fixation and the tape light of electricity and an electronic equipment (ABS, PS, and acrylic, etc.) and metallic (aluminum and stainless steel plate, etc.) materials.





Technical data

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

<Test piece condition>

Tape width: 20mm

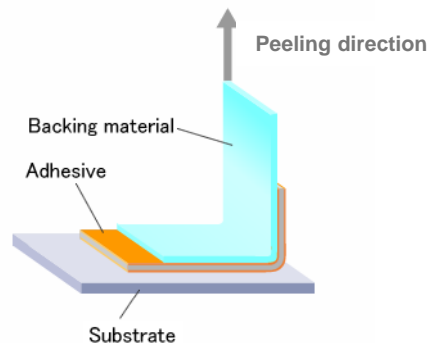
Bonding condition: One stroke with 2-kg roller

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>

<Results>

(N/20mm)

	Product name	Substrate							
		SUS	Iron	AL	Copper	ABS	PC	Acrylic	Glass
90° peeling strength	UT1615BU	25.4	23.1	11.7	21.7	11.9	9.9	10.1	19.4
	UT1620BU	26.1	24.8	12.7	22.7	12.1	10.3	12.6	20.0
	UT1625BU	27.6	28.9	15.1	25.5	13.2	11.6	16.3	24.0
	UT1640BU	30.9	32.1	17.4	28.5	16.1	13.2	19.6	27.5
	UT1670	32.9	34.0	18.0	30.1	17.2	14.2	20.9	37.5

2. Holding power at different temperatures

<Test piece condition>

Substrate: Stainless steel plate (SUS304)

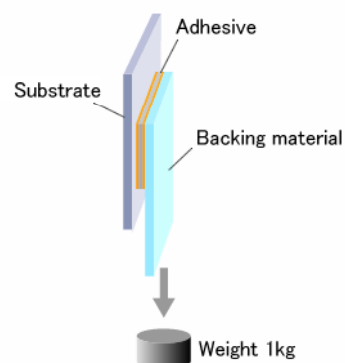
Bonding area: 25mm × 25mm

Bonding condition: One stroke with 2-kg roller

Backing material: 40µm Aluminum foil

[Left at RT for one hour and then at each temperature for 30 minutes before measurement]

[Creep length after one hour application of 1-kg load]



<Holding power test>

<Results>

	Product name	Measurement temperature		
		80°C	120°C	150°C
Creep length (mm)	UT1615BU	0.5	0.7	1.2
	UT1620BU	0.6	0.9	1.3
	UT1625BU	0.9	1.2	1.6
	UT1640BU	1.2	1.5	2.1
	UT1670	1.4	1.8	2.4



3. Reliability of bonding strength under different conditions (90° peeling)

<Test piece condition>

Substrate: Stainless steel plate (SUS304)

Tape width: 20mm

Bonding condition: One stroke with 2-kg roller

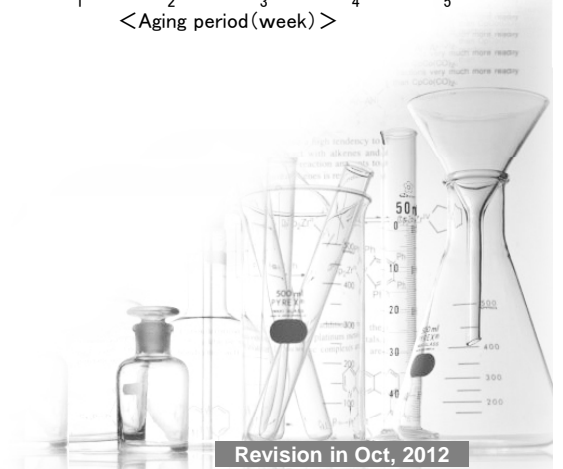
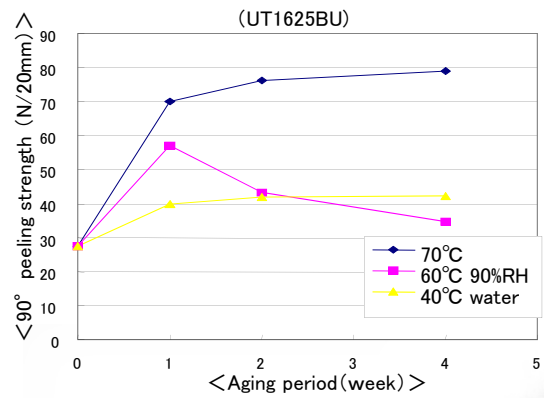
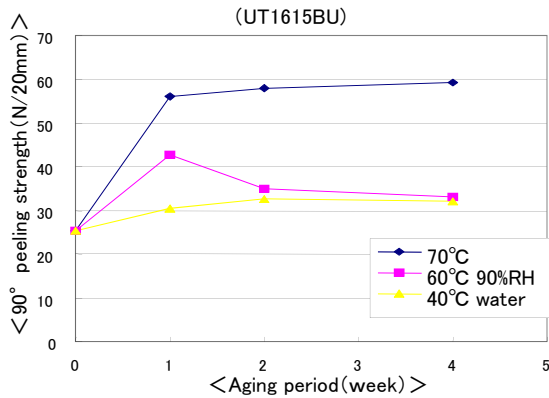
Peel speed: 300mm/min

Backing material: 40μm Aluminum foil

[Left at RT for four hours and aged under each condition before measurement]

<Results>

90° peeling strength	Aging condition	Product name	Aging period			
			Initial	1 week	2 weeks	4 weeks
			(N/20mm)			
Heat resistance 70°C		UT1615BU	25.4	56.2	57.9	59.4
		UT1625BU	27.6	70.1	76.3	79.0
Heat & moisture resistance 60°C 90%RH		UT1615BU	25.4	42.7	35.1	33.1
		UT1625BU	27.6	56.9	43.2	34.8
Water resistance 40°C water		UT1615BU	25.4	30.4	32.6	32.0
		UT1625BU	27.6	40.0	41.9	42.2



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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