Dexerials

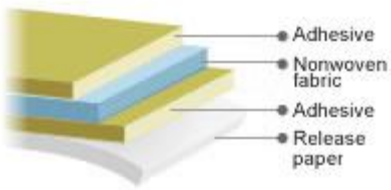
Technical Data Sheet

Strong adhesive type double coated tapes UT1400 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 glass 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 .
■ It is possible to excel in heatproof, and to use it under the environment of 120℃.

Structure



Product name	UT1430	UT1440
Main component	Acrylic	Acrylic
Carrier	Nonwoven fabric	Nonwoven fabric
Color	Translucent	Translucent
Adhesive thickness (μm)	About 300	About 400
Release paper thickness (μm)	About 140	About 140
Bonding strength (N/20mm) *	32	33
St'd size (width & length)	480mm × 50m	480mm × 50m

* 90° peeling strength

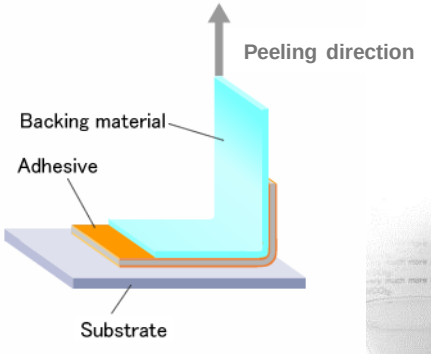
Suitable use

■ Ideal for plastics and metals for front panels and glasses for scanners.

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℃±5℃ 60%±20%RH
Peeling speed: 300mm/min
Backing material: 40μm Aluminum foil
[Left at RT for one hour / one day before measurement]



＜90° peeling strength test＞

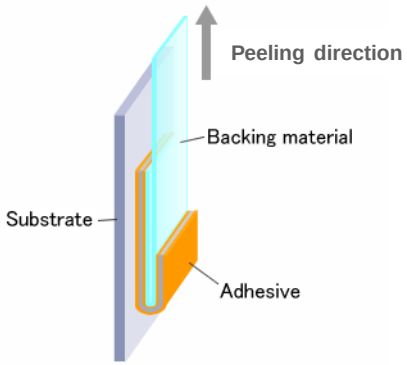
＜Results＞

(N/20mm)

90° peeling strength	RT 1 hour			RT 1 day		
	SUS	ABS	Glass	SUS	ABS	Glass
UT1430	23.5	18.4	22.7	32.1	21.4	25.7
UT1440	25.1	19.7	23.0	32.6	21.4	27.8

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℃±5℃ 60%±20%RH
Peeling speed: 300mm/min
Backing material: 25μmPET
[Left at RT for one hour before measurement]



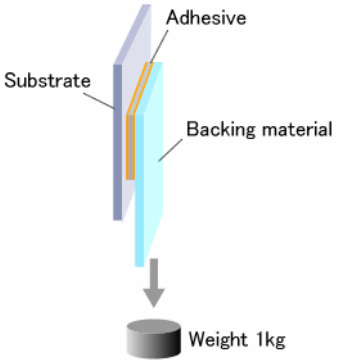
＜180° peeling strength test＞

＜Results＞ (N/20mm)

180° peeling strength	RT 1 hour		
	SUS	ABS	Glass
UT1430	16.3	12.6	16.3
UT1440	16.8	13.5	16.3

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
[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]



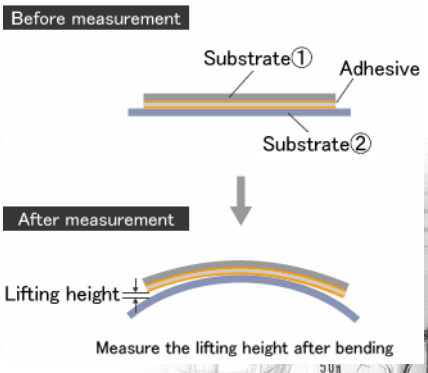
＜Holding power test＞

＜Results＞

Measurement temperature	Creep length (mm)	
	80℃	120℃
UT1430	0.7	1.2
UT1440	0.9	1.4

4. Curved surface bending

＜Test piece condition＞
Substrate ①: Aluminum plate 0.5mm × 20mm × 150mm
Substrate ②: ABS plate 2mm × 25mm × 200mm
Bonding condition: One stroke with 2-kg roller
Measuring condition: 50℃
[Left at RT for 24 hours, then lifting height of the edge after the elapsed time is measured]



＜Curved surface bending test＞

＜Results＞

Measurement temperature		Product name	1 hour	3 hours	5 hours	8 hours	24 hours
Lifting height (mm)	ABS/AL	UT1430	0	0	0	0	1.5
		UT1440	0	0	0	0	0

Revision in Oct, 2012

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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