Dexerials

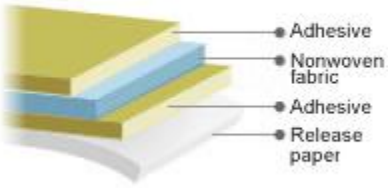
Technical Data Sheet

Strong adhesive type double coated tapes UT2340

Features

- Adhesive tape with lower environmental impact with UV curable manufacturing method (non solvent adhesive coating process).
- VOC values are lower than the VOC Guidelines of the Ministry of Health, Labour and Welfare of Japan.
- Maximum bonding strength is about two times as strong as G series (the conventional company products). Excellent adhesion to plastic and metallic surfaces.
- It is possible to correspond also to the design with three dimension curved surface because it is excellent in the static load characteristic (practical characteristic) such as Curved surface bending and Stable weight peeling.

Structure

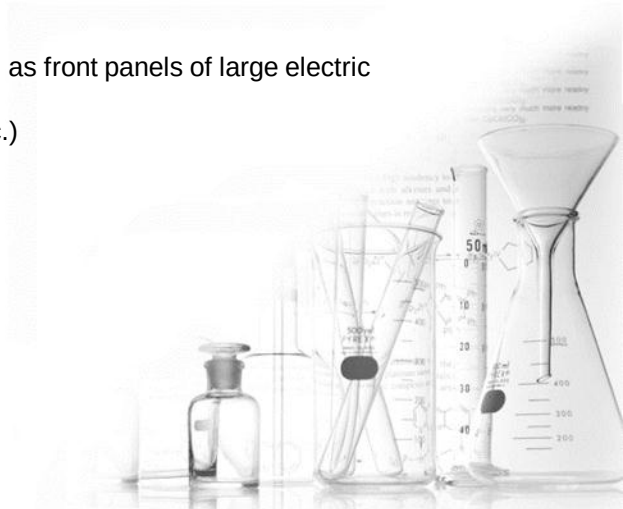


	UT2340
Main component	Acrylic
Carrier	Nonwoven fabric
Color	Translucent
Adhesive thickness（μm）	About 400
Release paper thickness（μm）	About 150
Bonding strength（N/20mm）※	28
St'd size (width & length)）	1000mm×50m

※ 90° Peeling strength

Suitable use

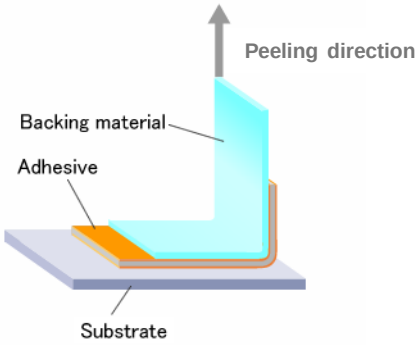
- It is suitable for bonding plastic and metallic parts such as front panels of large electric equipments.
- Ideal for use in airtight places (automobile, housing etc.)
- It is suitable for home appliances such as TV set.



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: 50μm SUS foil
[Left at RT for one hour before measurement]



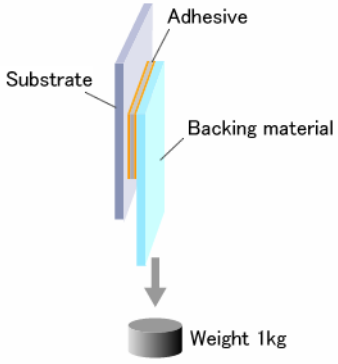
＜90° peeling strength test＞

＜Results＞ (N/20mm)

Substrate	SUS	ABS	Acrylic	PC/ ABS	PS	PC	SECC	Black print
90° peeling strength	28.1	24.0	26.5	29.6	28.8	32.0	21.0	20.8

2. Holding power under at different temperatures

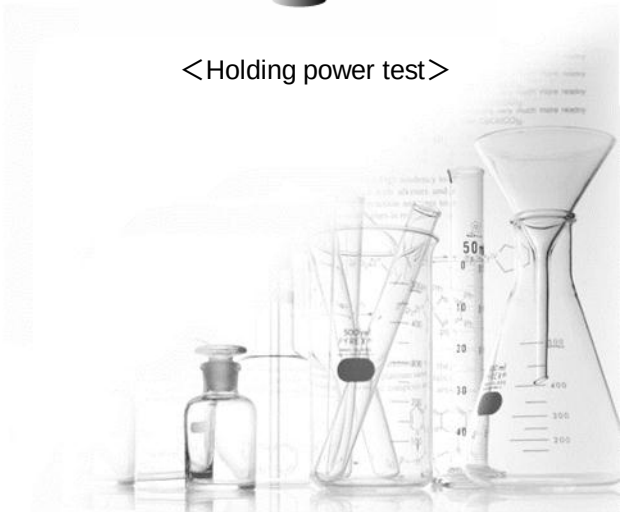
＜Test piece condition＞
Substrate: Stainless plate (SUS304)
Bonding area: 25mm × 25mm
Bonding condition: One stroke with 2-kg roller
[Measurement after it leaves it for 30 minutes under each temperature in one hour]
[creep length after one hour application of 1-kg load]



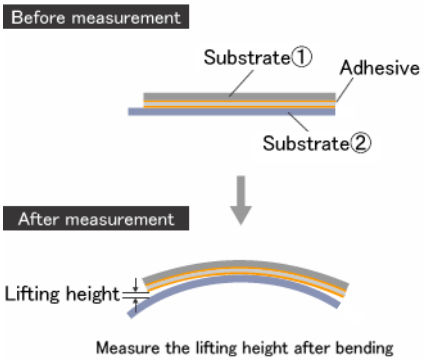
＜Holding power test＞

＜Results＞

Measurement temperature	40℃	100℃
creep length (mm)	1.4	2.6



3. Curved surface bending



＜Curved surface bending test＞

＜Test piece condition＞
Substrate ①: Aluminum plate 0.4mm × 20mm × 180mm
Substrate ②: Polystyrene plate 2mm × 25mm × 200mm
Bonding condition: One stroke with 2-kg roller
Measuring condition: 60℃
[Left at RT for 24 hours, then lifting height of the edge after the elapsed time is measured.]

＜ Results ＞

Elapsed time	1hour	3hours	5hours	8hours	24hours
Lifting height（mm）	0	0	0	0	0

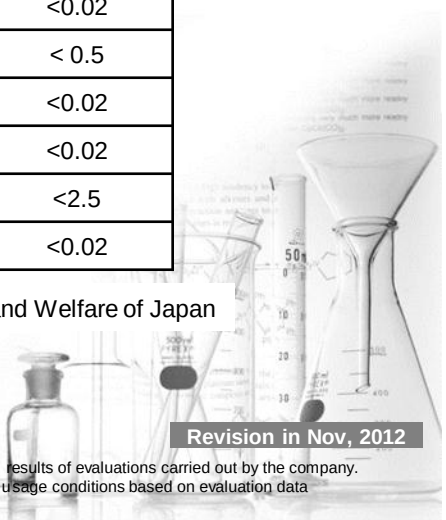
4. Amount of VOC diffusion

＜Methods of analysis＞
JIS A-1901: Small chamber method

＜Results＞

Volatile organic compound	The indoor concentration guideline value ※	UT2340
Formaldehyde	100μg/m3	<2.5
Toluene	260μg/m3	<0.5
Xylene	870μg/m3	<0.5
Para-dichlorobenzene	240μg/m3	<0.5
Ethylbenzene	3800μg/m3	<0.5
Styrene	220μg/m3	<0.5
Chlorpyrifos	1μg/m3	<0.02
Dibutyl phthalate	220μg/m3	<0.02
Tetradecane	330μg/m3	< 0.5
Bis-(2-ethylhexyl)phthalate	120μg/m3	<0.02
Diazinon	0.29μg/m3	<0.02
Acetaldehyde	48μg/m3	<2.5
Fenobucarb	33μg/m3	<0.02

※ The indoor concentration guideline value by the Ministry of Health, Labour and Welfare of Japan



Revision in Nov, 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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