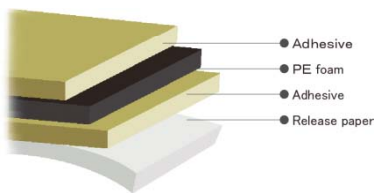


Foam base strong adhesive types UT7140FB

Features

- Adhesive tape with UV curable manufacturing method (non solvent adhesive coating process). Effective to minimize VOC (Volatile Organic Compound) emission which is harmful for human body and environment. VOC emission is so less (compared to our conventional tapes) as to clear The VOC guideline of the Ministry of Health, Labour and Warefare of Japan.
- Maximum bonding strength is about three 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



	UT7140FB
Main component	Acrylic resin
Carrier	PE foam
Color	Black
Adhesive thickness (μm)	About 400
Release paper thickness (μm)	About 120
Bonding strength (N/20mm) ※	43
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°C±5°C 60%±20%RH

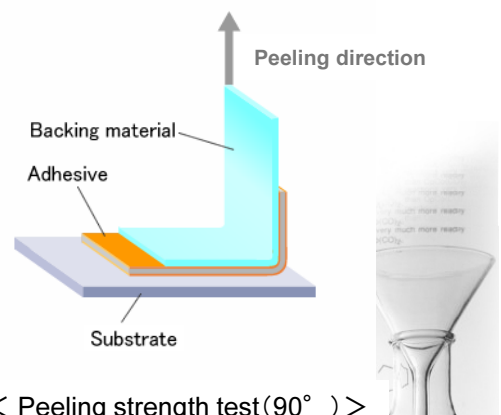
Peeling speed: 300mm/min

Backing material: 50μm SUS foil

[Left at RT for one hour / one day before measurement]

<Results>

Substrate	SUS	ABS	Acrylic	PC/ABS	PS	PC	SECC	Black print
90° peeling strength	43.1	28.4	35.8	39.2	32.3	48.0	27.4	26.0



< Peeling strength test(90°)>

(N/20mm)

2. Curved surface bending

<Test piece condition>

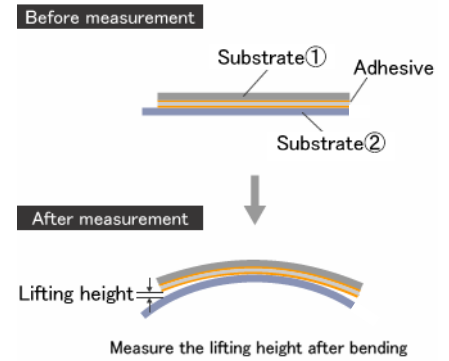
Substrate ①: Aluminum plate 0.4mm × 20mm × 180mm

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

Bonding condition: One stroke with 2-kg roller

Measuring condition: 60°C

[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

< Curved surface bending test >

3. Amount of VOC diffusion

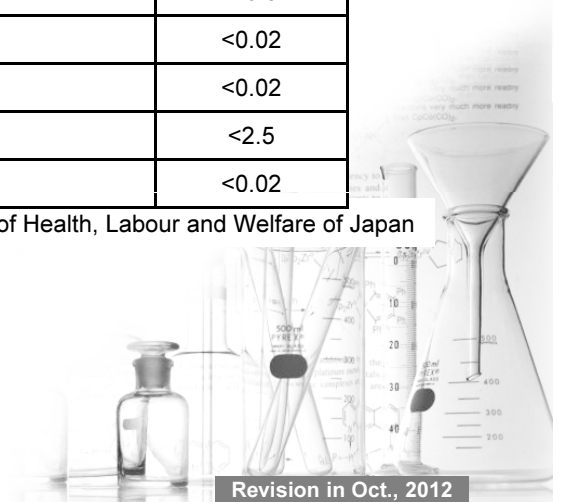
<Methods of analysis>

JIS A-1901: Small chamber method

<Results>

Volatile organic compound	The indoor concentration guideline value ※	UT7140FB
Formaldehyde	100µg/m ³	<2.5
Toluene	260µg/m ³	<0.5
Xylene	870µg/m ³	<0.5
Para-dichlorobenzene	240µg/m ³	<0.5
Ethylbenzene	3800µg/m ³	<0.5
Styrene	220µg/m ³	<0.5
Chlorpyrifos	1µg/m ³	<0.02
Dibutyl phthalate	220µg/m ³	<0.02
Tetradecane	330µg/m ³	< 0.5
Bis-(2-ethylhexyl)phthalate	120µg/m ³	<0.02
Diazinon	0.29µg/m ³	<0.02
Acetaldehyde	48µg/m ³	<2.5
Fenobucarb	33µg/m ³	<0.02

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



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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