

General-purpose double coated tapes G9000/G9000W

Features

- Adhesive tape with lower environmental impact with UV curable manufacturing method (non solvent adhesive coating process).
- G9000 clears The VOC guideline of Japanese Health, Labor and Welfare.
- High adhesive quality (heat resistance and weather resistance) for wide ranging applications.
- Excellent holding power even at elevated temperature of 100°C.

Structure



*2
 Release paper
 Adhesive
 Nonwoven fabric
 Adhesive
 Release paper

Product name	G9000	G9000W *2
Main component	Acrylic	Acrylic
Carrier	Nonwoven fabric	Nonwoven fabric
Color	Translucent	Translucent
Adhesive thickness (μm)	About 150	About 150
Release paper thickness (μm)	About 150	About 150+120
Bonding strength (N/20mm) *3	14	14
St'd size (width & length)	500mm × 50m	500mm × 50m

* UL certificated. UL file No: (UL 969 No.MH 15431)

*2 G9000W is with both side release paper.

*3 180° peeling strength

Suitable use

- It is suitable for the material bonding usage of plastic such as nameplates and front panels of electricity and an electronic equipment (ABS, PS, and acrylic resin, etc.) and the metals (aluminum and stainless steel plate, etc.).



Technical data

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

<Test piece condition>

Tape width: 20mm

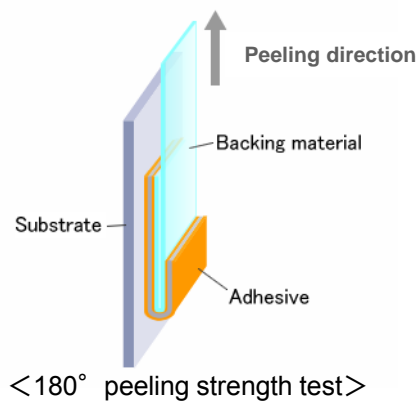
Bonding condition: One stroke with 2-kg roller

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

Peeling speed: 300mm/min

Backing material: 25µmPET

[Left at RT for one hour before measurement]



<Results>

(N/20mm)

Substrate	SUS	AL	ABS	Acrylic	PS	PP	PC
180° peeling strength	13.7	8.8	11.6	12.4	11.5	5.1	11.9

Jerky destruction of PP

Substrate	Soft PVC	Hard PVC	Glass	CR	NR
180° peeling strength	12.6	13.2	12.9	3.4	4.0

2. Holding power at different temperatures

<Test piece condition>

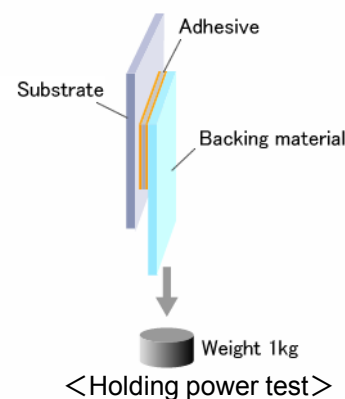
Substrate: Stainless steel plate (SUS304)

Bonding area: 25mm × 25mm

Bonding condition: One stroke with 2-kg roller

[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]



<Results>

Measurement temperature	40°C	60°C	80°C	100°C
Creep length (mm)	0.2	0.3	0.3	0.6

3. Bonding strength at different temperatures (180° peeling)

<Test piece condition>

Substrate: Stainless steel plate (SUS304)

Tape width : 20mm

Bonding condition: One stroke with 2-kg roller

Peeling speed: 300mm/min

Backing material: 100µm Aluminum foil (-20°C to 5°C), 25µmPET (10°C to 100°C)

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

<Results>

(N/20mm)

Measurement temperature	-20°C	0°C	5°C	10°C	23°C	40°C	60°C	80°C	100°C
180° peeling strength	*	32.4	28.3	25.5	17.4	14.4	11.9	10.8	9.3

* AF on backing material

4. Stable weight peeling

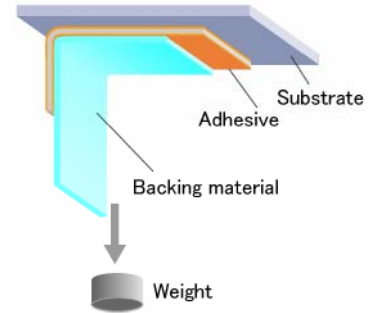
<Test piece condition>

Tape width: 20mm

Bonding condition: One stroke with 2-kg roller

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

[Left at RT for one hour, measure the peeled off distance by 100-g load]



<Stable weight peeling test>

<Results>

		SUS	AL	ABS	PS	Acrylic	PP
Peel off distance (mm)	1 hour	1.0	2.0	2.0	2.5	2.0	3.5
	3 hours	1.3	3.0	3.5	5.0	3.3	7.8
	5 hours	1.3	2.8	4.5	7.5	4.5	11.0
	24 hours	1.5	9.5	18.5	34.0	16.0	59.0

5. Amount of VOC diffusion

<Methods of analysis>

JIS A-1901: Small chamber method

<Results>

(Volatile organic compound)	The indoor density indicator value ※	G9000
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	0.7
Bis-(2-ethylhexyl)phthalate	120µg/m ³	<0.02
DIAZINON	0.29µg/m ³	<0.02
acetaldehyde	48µg/m ³	<2.5
FENOBU CARB	33µg/m ³	<0.02

※ The indoor density indicator value that the Ministry of Health, Labour and Welfare in Japan sets

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.

Dexerials Corporation

URL : <http://www.dexerials.jp/en/>

Head Office: Gate City Osaki, East Tower 8th floor, 1-11-2 Osaki, Shinagawa-ku, Tokyo, JAPAN 141-0032

Sales & Marketing Dep. TEL : +81-3-5435-3946