Dexerials

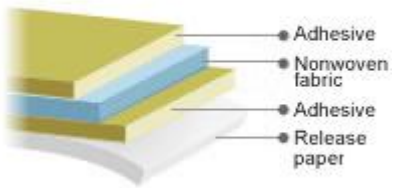
Technical Data Sheet

General-purpose double coated tapes G9900T

Features

- Adhesive tape with lower environmental impact with UV curable manufacturing method (non solvent adhesive coating process).
- High adhesive quality (heat resistance and weather resistance) for wide ranging applications.
- Standing up of bonding strength is early, and it excels in an initial bonding.
- G9900T clears The VOC guideline of Japanese Health, Labor and Welfare.
- 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



Main component	Acrylic
Carrier	Nonwoven fabric
Color	Translucent
Adhesive thickness (μm)	About 150
Release paper thickness (μm)	About 140
Bonding strength (N/20mm) *2	15
St'd size (width & length)	500mm × 50m

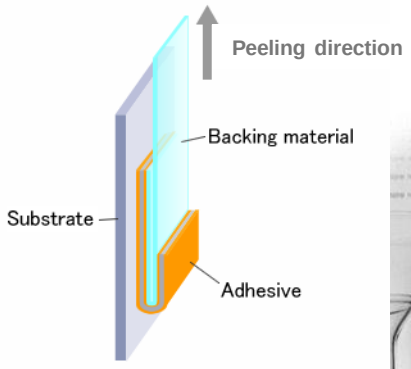
* UL certificated. UL file No: (UL969 NO.MH15431
*2 180° peeling strength

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.).
- It is suitable for the bonding usage of form materials of packing and damping materials etc. of electricity and an electronic equipment (urethane etc.) and various rubbers.
- It is suitable for the bonding usage of plastic and the fabric in the automobile interior part (heat control panel and muffling material) 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℃±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)

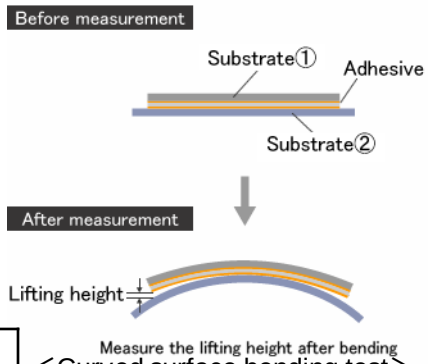
Substrate	SUS	AL	ABS	Acrylic	PS	PP	PC
180° peeling strength	14.7	8.1	14.8	15.5	14.8	8.0	15.7

（N/20mm）

Substrate	Soft PVC	Hard PVC	Glass	POM	NR
180° peeling strength	22.6	16.1	13.7	10.0	6.3

2. Curved surface bending

＜Test piece condition＞
Substrate ①: Aluminum plate 0.5mm × 20mm × 150mm
Substrate ②: Polystyrene 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 ＞

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

3. Amount of VOC diffusion

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

＜Results＞

（Volatile organic compound）	The indoor density indicator value ※	G9900T
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 density indicator value that the Ministry of Health, Labour and Welfare in Japan sets

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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

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