Dexerials

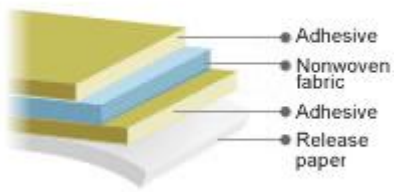
Technical Data Sheet

Removable double coated tapes G9500R

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.
- The carrier has excellent strength which is good for a removal performance.
- The balance of the bonding characteristic demonstrates an excellent bonding performance well for a wide-ranging substrate from general-purpose plastic to the metal.
- Standing up of bonding strength is early, and it excels in an initial bonding.
- 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

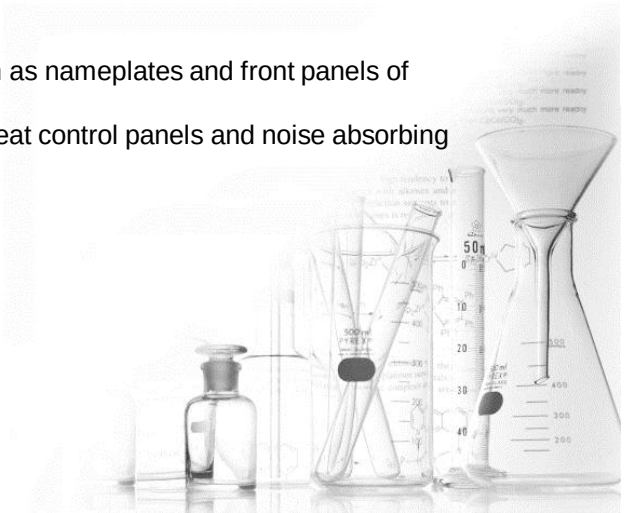


	G9500R
Main component	Acrylic resin
Carrier	Nonwoven fabric
Color	Translucent
Adhesive thickness（μm）	About 150
Release paper thickness（μm）	About 150
Bonding strength（N/20mm）※	17
St'd size (width & length)）	1000mm × 50m

※ 180° peeling strength

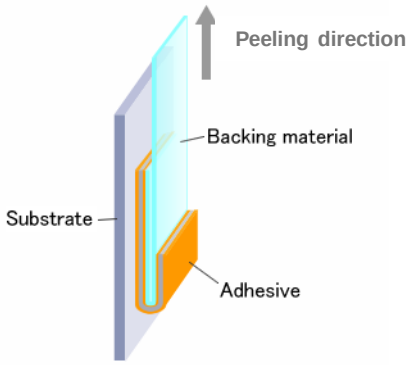
Suitable use

- It is suitable for home appliances such as TV set.
- It is suitable for bonding plastic and metallic parts such as nameplates and front panels of electric equipments.
- It is suitable for bonding plastics and fabrics such as heat control panels and noise absorbing materials used in automobile interior.



Technical data

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



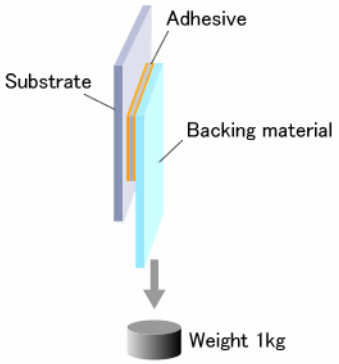
＜Peeling strength test（180° ）＞

＜Test piece condition＞
Tape width : 20㎜
Bonding condition : One stroke with 2-kg roller
Measuring condition:23℃±5℃ 60%±20% RH
Peeling speed : 300㎜/min
Backing material : 25μm PET
[Left at RT for one hour before measurement]

＜ Results ＞ （N/20mm）

Substrate	SUS	ABS	PC	Glass	PC/ABS	SECC	Acrylic
180° peeling strength	17.1	16.1	17.3	16.6	16.6	16.9	16.7

2. Holding power at different temperatures



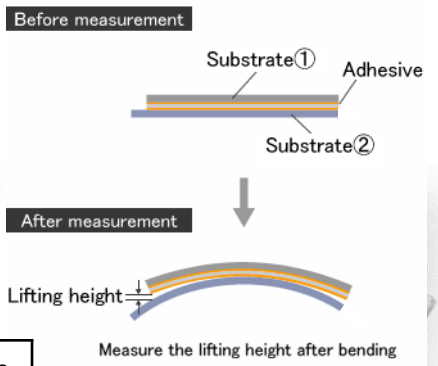
＜Holding power test＞

＜Test piece condition＞
Substrate：Stainless steel plate（SUS304）
Bonding area：25mmx25mm
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 at each temperature]

＜ Results ＞

Measurement temperature	40℃	100℃
Creep length（mm）	0.4	0.6

3. Curved surface bending

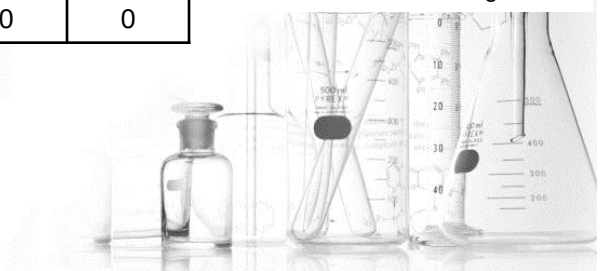


＜ Curved surface bending test ＞

＜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. Removal evaluation / 180° peeling

＜Test piece condition＞
Substrate :ABS, PC/ABS, SECC, Aluminum, SUS
Test piece size :20mm × 75mm
Bonding condition :One stroke with 2-kg roller
Measuring condition :23℃±5℃ 60%±20% RH
Peeling speed : 300㎜/min
Backing material : 25μm PET
[Left in each aging condition and then RT for one hour before measurement]

ABS	40℃ 7days	OK	SECC	40℃ 7days	OK	SUS	40℃ 7days	OK
	40℃ 14days	OK		40℃ 14days	OK		40℃ 14days	OK
	70℃ 7days	OK		70℃ 7days			70℃ 7days	
	70℃ 14days	OK		70℃ 14days	OK		70℃ 14days	
PC/ABS	40℃ 7days	OK	Aluminum	40℃ 7days	OK			
	40℃ 14days	OK		40℃ 14days	OK			
	70℃ 7days	OK		70℃ 7days	OK			
	70℃ 14days	OK		70℃ 14days	OK			

Condition after removal : OK=No adhesive residue, Adhesive residue at edge

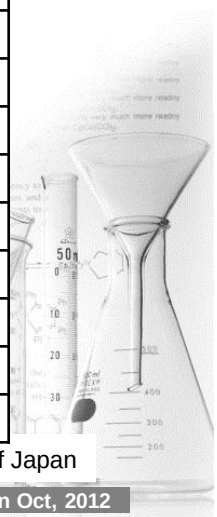
3. Amount of VOC diffusion

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

＜Results＞

Volatile organic compound	The indoor concentration guideline value ※	G9500R
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 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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