

# Nitto

Innovation for Customers

## DOUBLE-COATED ADHESIVE TAPES



# Nitto

Innovation for Customers

### Nitto Denko Corporation

26th Fl., Shinagawa Season Terrace, 1-2-70, Konan, Minato-ku, Tokyo 108-0075, Japan  
TEL: +81-3-6632-2101 FAX: +81-3-6632-2025 <https://www.nitto.com/jp/en/>  
CATALOG CODE: 02203 Issued in August 2020



0303F30 ©  
1610R20  
1909R10  
2008R10

# DOUBLE-COATED ADHESIVE TAPES

Nitto Double-Coated Adhesive Tapes

By binding one thing to another, our double-coated adhesive tapes bind needs and functions.

Nitto has developed many types of double-coated adhesive tapes for the past 50 years. During this time, we have learned a lot of things from our customers. We have also studied the market and have added various functions to our tapes. Double-coated adhesive tapes bind one thing to another, but the tapes need to have other functions as well.

There is a need for a tape that is easy to peel when necessary, a tape that can block out light, a tape that is environmentally friendly and a tape that can be easily recycled. Especially in the field of electronics in which demand is growing, there is a need for tapes that are clean for precision parts, tapes that fulfill special functions and tapes that adhere well. Nitto supports activities in many fields from electronics to residential construction and household appliances with our multifunction double-coated adhesive tape. Depending on our customers' ideas, double-coated adhesive tape can be used in various ways. Nitto has the most suitable tape for your needs, whatever they are.

While continuing to produce tapes that offer strong binding characteristics, we are also trying to identify our customers' needs so we can continue to turn out products that precisely satisfy those needs.

Just as with bonding one thing to another, we want our double-coated adhesive tape to bind our customers' hidden needs with tape function. You can always depend on Nitto double-coated adhesive tapes to suit your needs.

adhesive tapes bind needs and functions.

Properties	Product name	Page
<b>Environmentally Friendly Products</b>		3-4
Environment-friendly and suitable to adhesive for rough surface	EW-514/EW-514D/EW-514DB	5
Environment-friendly and highly adhesive	No.5000E	6
Low-VOC products	No.510/No.512/No.515/No.516	7
Superior adhesion on oily surfaces and environment-friendly	OW-5016	8
Multipurpose double-coated adhesive tape	No. 5015EF	8
<b>Fixing of Precision Parts</b>		
For applications that require light-shielding and reflection function	No.5680E/No.5682E	9
For applications that require light-shielding function	No.56xxBN	9
For fixing parts and sheets where minimum thickness is required	No.5600	10
For fixing thin components	No.5601/No.5603	10
For applications that require thickness control	No.5605/No.5606/No.5608/No.5610/No.5612/No.5615/No.5620A	11
For fixing parts of electronic components	No.5603R/No.5605R/No.5610R	12
For fixing thin black components	UTS series	12
	UTD series	13
For applications that require sebum-resistance	No.564xx series	13
Heat-resistant tape for use with components such as FPCs	No.5919MLW/No.585	14
For applications where waterproofing and strong adhesion are required	No.57115B/No.57120B/No.57125B/No.57130B	15
Fixing of LED substrate to chassis	TR series	16
For low-outgas and silicone-free needs	DSP1220 (60)	17
For low-outgas needs	LA-50/100	17
For applications in which waterproof performance and high adhesion are required in a limited space	No.57210B	18
For applications where waterproofing and strong adhesion are required	No.57115SB/No.57120SB/No.57125SB/No.57130SB	19
<b>Fixing with Special Function</b>		
Strong adhesion and re-peeling	No.5000NS	20
Removable adhesive tape with excellent adhesive strength	No.5000ND	21
Highly adhesive and easy to remove	GA907	21
Applicable for adhesion to curved surfaces	VR-50001/VR-5300/VR-5300H	22
Removable adhesive tape used for applications in which both weak and strong adhesion are required	No.535A	22
Flame-retardant tape	No.5011N	23
For adhesion to rough surfaces	PF-370(S)	23
Strong adhesive property (for housing)	HYPERJOINT® H Series	24
Superior transparency and heat resistance	HJ-3160W/HJ-9150W	25
For grounding electronic appliances and shielding electromagnetic waves	NITOFIL® CT-311E	25
For heat resistance needs	No.5915	26
<b>Fixing of Specific Substrates</b>		
For silicone rubber materials	No.5302A	27
For rubber materials	VR-5311/VR-5321	27
For laminating all kinds of foam surfaces	No.501L	28
For fixing PVC film	TW-Y01	28
<b>Fixing of General Parts</b>		
For temporary fixing of leather products	No.501K	29
For fixing printing plates	No.511/No.513	29
General purpose double-coated adhesive tape	No.500	30
	No.532	30
Tapes with foam carrier	No.575	31
General purpose double-coated adhesive tape	No.5015	31
	No.501F	32
	No.506/No.508	32
For a wide variety of substrates	No.5000N (C) B	33
Tapes with foam carrier	No.5713 No.541	34
<b>Heat Activated Adhesive Sheet</b>		
No separator adhesive sheet	B-EFP11	35
For a wide variety of substrates	FB-ML80	35
For strong bonding	FB-ML4	36

## Properties

Product name	Carrier	Tape thickness (mm)	180° peeling force (N/20mm) (For stainless)	Page
EW-514	Non-woven fabric	0.14	12.0	5
EW-514D	Non-woven fabric	0.28	14.0	5
EW-514DB	Non-woven fabric	0.28	14.0	5
No.5000E	High-strength non-woven fabric	0.16	15.5	6
No.510	Non-woven fabric	0.15	12.0	7
No.512	Non-woven fabric	0.15	14.8	7
No.515	Non-woven fabric	0.25	16.5	7
No.516	Non-woven fabric	0.15	12.0	7
OW-5016	Non-woven fabric	0.16	15.5	8
No.5015EF	Non-woven fabric	0.12	14.0	8
No.5680E	White/black-colored special PET film	0.085	15.0	9
No.5682E	White/black-colored special PET film	0.06	13.0	9
No.5605BN	Black-colored special PET film	0.05	11.0	9
No.5606BN	Black-colored special PET film	0.06	13.1	9
No.5608BN	Black-colored special PET film	0.08	15.1	9
No.5610BN	Black-colored special PET film	0.10	16.9	9
No.5612BN	Black-colored special PET film	0.12	20.5	9
No.5615BN	Black-colored special PET film	0.15	21.3	9
No.5600	PET film	0.005	5.0	10
No.5601	PET film	0.01	6.0	10
No.5603	PET film	0.03	9.0	10
No.5605	PET film	0.05	11.0	11
No.5606	PET film	0.06	13.1	11
No.5608	PET film	0.08	15.1	11
No.5610	PET film	0.10	16.9	11
No.5612	PET film	0.12	20.5	11
No.5615	PET film	0.15	21.3	11
No.5620A	PET film	0.20	20.0	11
No.5603R	PET film	0.03	9.0	12
No.5605R	PET film	0.05	11.5	12
No.5610R	PET film	0.10	16.0	12
UTS-5BSL	Black color special printed PET film	0.005	2.6	12
UTS-10BAF	Black color special printed PET film	0.01	3.1	12
UTS-20BAF	Black color special printed PET film	0.02	8.2	12
UTS-30BAF	Black color special printed PET film	0.03	10.2	12
UTD-10B	Black color special printed PET film	0.01	3.0	13
UTD-20B(W)	Black color special printed PET film	0.02	7.5	13
UTD-30B(W)	Black color special printed PET film	0.03	10.8	13
No.56405	PET film	0.05	18.0	13
No.56410	PET film	0.1	22.0	13
No.56415	PET film	0.15	22.4	13
No.5919MLW	No carrier	0.05	11.8	14
No.585	Cellulose	0.05	13.0	14
No.57115B	Special polyolefin foam	0.15	17.0	15
No.57120B	Special polyolefin foam	0.20	19.0	15
No.57125B	Special polyolefin foam	0.25	21.0	15
No.57130B	Special polyolefin foam	0.30	21.0	15
TR-5310EX	PET film	0.10	9.0	16
TR-5320F	PET film	0.20	11.0	16
TR-5325F	PET film	0.25	11.0	16
TR-5912F	No carrier	0.12	16.0	16
TR-5920FS	No carrier	0.20	16.0	16
TR-5925F	No carrier	0.25	18.0	16
DSP1220(60)	PET film	0.06	9.5	17
LA-50	No carrier	0.050	10.0	17
LA-100	No carrier	0.100	13.0	17

Product name	Carrier	Tape thickness (mm)	180° peeling force (N/20mm) (For stainless)				Page
No.57210B	Polyolefin foam	0.10	10.0				18
No.57115SB	Special strong polyolefin foam	0.15	19.0				19
No.57120SB	Special strong polyolefin foam	0.20	17.0				19
No.57125SB	Special strong polyolefin foam	0.25	20.0				19
No.57130SB	Special strong polyolefin foam	0.30	20.0				19
No.5000NS	High-strength non-woven fabric	0.16	16.0				20
No.5000ND	High-strength non-woven fabric	0.32	17.0				21
GA907	High-strength non-woven fabric	0.12	16.5				21
VR-5000	Non-woven fabric	0.14	30.0				22
VR-5300	PET film	0.14	30.0				22
VR-5300H	PET film	0.10	25.0				22
No.535A	PET film	0.12	Side 1	7.5	Side 2	5.4	22
No.5011N	Flame-retardant non-woven fabric	0.15	14.3				23
PF-370(S)	Special foam polyethylene	1.2	17.0				23
HYPERJOINT H9004	Acrylic foam	0.4	59*1				24
HYPERJOINT H9008	Acrylic foam	0.8	80*1				24
HYPERJOINT H9012	Acrylic foam	1.2	94*1				24
HYPERJOINT H8004	Acrylic foam	0.4	71*1				24
HYPERJOINT H8008	Acrylic foam	0.8	91*1				24
HYPERJOINT H8012	Acrylic foam	1.2	100*1				24
HYPERJOINT H7004	Acrylic foam	0.4	86*1				24
HYPERJOINT H7008	Acrylic foam	0.8	119*1				24
HYPERJOINT H7012	Acrylic foam	1.2	130*1				24
HJ-3160W	PET film	0.1	14.2				25
HJ-9150W	No carrier	0.05	10.8				25
NITOFIL CT-311E	Rolled copper foil (Single side)	0.11	15.0				25
No.5915	No carrier	0.05	11.6				26
No.5302A	PET film	0.085	Side 1	10.0	Side 2	11.4	27
VR-5311	PET film	0.15	Side 1	20.5	Side 2	11.5	27
VR-5321	PET film	0.15	Side 1	20.4	Side 2	11.5	27
No.501L	Non-woven fabric	0.16	10.0				28
TW-Y01	Non-woven fabric	0.17	15.2				28
No.501K	Non-woven fabric	0.17	10.7				29
No.511	Japanese paper	0.13	8.7				29
No.513	Japanese paper	0.13	8.3				29
No.500	Non-woven fabric	0.17	12.5				30
No.532	PET film	0.06/0.08/0.125	6.0 (0.06mm)	6.3 (0.08mm)	6.7 (0.125mm)	30	
No.575	Special polyolefin foam	1.2	22.7				31
No.5015	Non-woven fabric	0.12	16.0				31
No.501F	Non-woven fabric	0.16	7.2				32
No.506	Non-woven fabric	0.10	14.0				32
No.508	Non-woven fabric	0.14	15.0				32
No.5000N(C)B	High-strength non-woven fabric	0.16	16.0				33
No.5713	Special polyolefin foam	0.33	9.9				34
No.541	Butyl rubber foam sheet	0.75	12.4				34
B-EFP11	PET film	0.29	Shear strength/RT (N/cm <sup>2</sup> ) 2,220				35
FB-ML80	No carrier	0.05	Shear strength/RT (N/cm <sup>2</sup> ) 1,600				35
FB-ML4	No carrier	0.05/0.07	20 (N/10mm)				36

\*1 : Measured in 90°peeling force (N/25mm)

\*2 : Measured in 90°peeling force (N/10mm)

## Low-VOC\* double-coated adhesive tape

EW-514/EW-514D/EW-514DB



### Environment-friendly and suitable to adhesive for rough surface

Double-coated adhesive tape exhibits minimum amount of VOC discharge level with the use of solvent-free acrylic adhesive. And superior repulsion resistance.

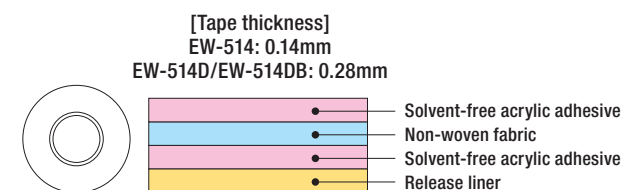
Awarded the 46th "Environmental Award" in Japan.

\*VOC: volatile organic compound

### Features

- Use no organic solvents (toluene, xylene, ethyl acetate, etc.)
- The guideline values for the 13 VOCs specified by Japan's Ministry of Health, Labour and Welfare are satisfied.
- Excellent adhesion to rough surface (foam, non-woven fabric, felt).
- EW-514D/EW-514DB are good performance for rough surface because of its thickness.

### Structure



\*Tape thickness excludes thickness of release liner.

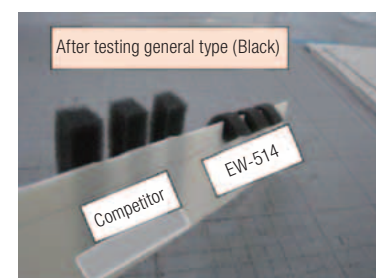
### Properties

■ 180° peeling force according to type of substrate

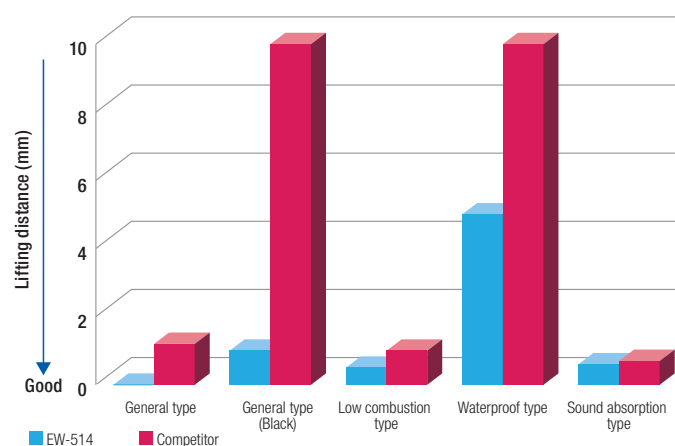
(Unit: N/20mm)

Substrate	EW-514	EW-514D/EW-514DB
Stainless	12.0	14.0
Ether type urethane foam	2.8	9.0
Ester type urethane foam	11.0	16.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.



■ Repulsion resistance (For urethane foam)



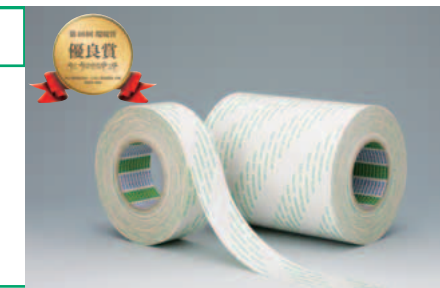
- Test measurement  
Foam thickness: 10mm  
Foam or tape width: 10mm  
Fold length: 10mm  
Method of pressing: Foam and tape... Only self-weight  
Tape with foam and substrate (ABS)...  
2 kg roller is applied in one back-and-forth motion  
Measure condition: 23°C/50%×24hrs. +70°C×2hrs later, measure lifting distance.

### Applications

- Fixing of sound-absorption materials for automobile interior parts and home electrical appliances.
- Fixing of various plastics.
- Fixing to automobile headlining wire harness.
- Fixing to cosmetic compact mirror.

## Low-VOC\* removable double-coated adhesive tape

No. 5000E



### Environment-friendly and highly adhesive

No. 5000E is a solvent-free, environment-friendly double-coated adhesive tape that offers both excellent adhesive performance and easy removability.

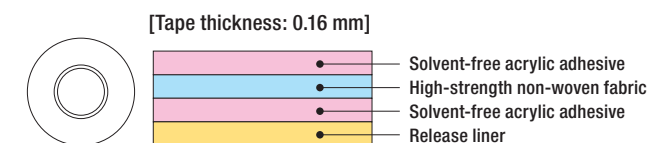
Awarded the 46th "Environmental Award" in Japan.

\*VOC: volatile organic compound

### Features

- No organic solvents (toluene, xylene, ethyl acetate, etc.) are used.
- The guideline values for the 13 VOCs specified by Japan's Ministry of Health, Labour and Welfare are satisfied.
- Excellent adhesion to various substrates.
- Excellent curved-surface adhesion.
- High tape strength and backing minimize tearing at the time of release.

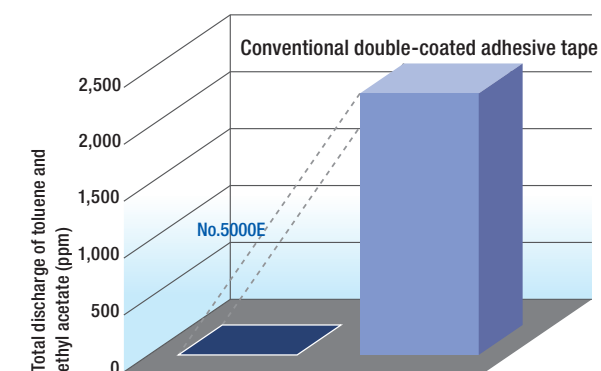
### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

■ Total discharge of toluene and ethyl acetate Heating conditions: 80°C x 30 minutes



\*The values indicated are examples of observed values and do not represent guaranteed performance.

■ Peeling force (Unit: N/20mm)

Substrate	No. 5000E
Stainless steel plate	15.5
ABS plate	14.5
PCABS plate	15.0
PSt plate	17.0
PET plate	16.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

• After storage at 40°C for 15 days

Substrate	No. 5000E		Tear resistance	
	Tear resistance	Adhesive residue	Tear resistance	Adhesive residue
Stainless steel plate	○	○	×	×
ABS plate	○	○	×	×
PCABS plate	○	○	×	×
PSt plate	○	○	×	×
PET plate	○	○	×	×

### Applications

- Bonding of metal plates, plastic plates, plastic films, foam, etc.
- Bonding of cushioning materials and sealing materials for home electrical appliances such as TV sets and air-conditioners
- Bonding of internal parts and insulators in electronic equipment such as mobile phones and personal computers

**Thick double-coated adhesive tape that is low-VOC\* and solvent free No. 510/No. 512/No. 515/No. 516**



**Low-VOC products**

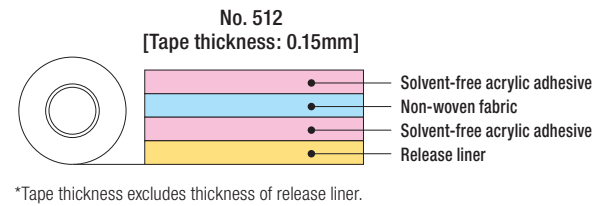
Double-coated adhesive tape exhibits minimum amount of odor and low VOC discharge level with the use of solvent-free acrylic adhesive.  
Awarded the 46th "Environmental Award" in Japan.

\*VOC: Volatile Organic Compound

**Features**

- Uses no organic solvents (toluene, xylene, ethyl acetate)
- VOC discharge level is lower than that specified by the Japanese Ministry of Health, Labour and Welfare's guidelines.
- Non-woven fabric carrier allows for superior adherence to substrates.

**Structure**



**Applications**

- Bonding of automobile interior parts
- Bonding of housing interior components
- Fixing of components of home electrical appliances and office equipment

**Properties**

■ 180° peeling force according to type of substrate

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No. 510 (high-holding power type)	0.15	12.0
No. 512 (initial adhesive strength type)	0.15	14.8
No. 515 (high-holding power/thick type)	0.25	16.5
No. 516 (curve adhesive strength type)	0.15	12.0

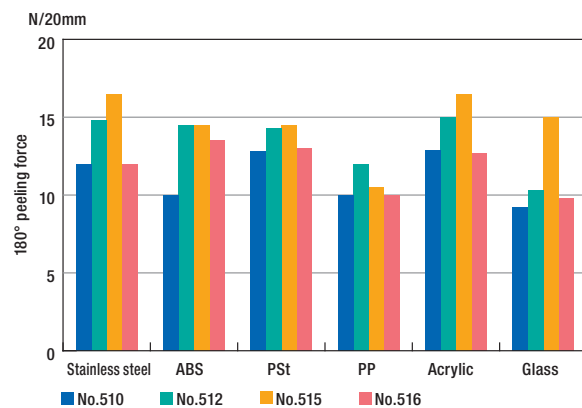
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

■ VOC discharge

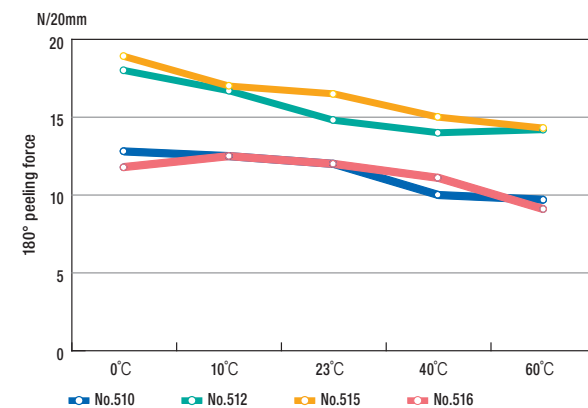
Measured substance	MHLW guidelines [ $\mu\text{g}/\text{m}^3$ ]	No.510	No.512	No.515	No.516
Formaldehyde	100	ND	ND	ND	ND
Acetaldehyde	48	ND	ND	ND	ND
Toluene	260	ND	ND	ND	ND
(o-m-p-) xylene	870	ND	ND	ND	ND
Ethylbenzene	3800	ND	ND	ND	ND
Styrene	220	ND	ND	ND	ND
Tetradecan	330	ND	ND	ND	ND
Di (2- ethylhexyl) phthalate	120	ND	ND	ND	ND
Di-n-butyl phthalate	220	ND	ND	ND	ND
Diazinon	0.29	ND	ND	ND	ND
Fenobucarb	33	ND	ND	ND	ND
Paradichlorobenzene	240	ND	ND	ND	ND
Cholorpyrifos	1	ND	ND	ND	ND

\*ND = not detected (below detectible limits) analysis conditions: JIS A1901  
Conforms to small chamber method

■ Excellent adhesiveness to different substrates 180° peeling force testing



■ Maintains superior adhesiveness for temperatures ranging from low to high 180° peeling force testing (For stainless steel plate)



**Double-coated adhesive tape for oily surfaces OW-5016**

**OW-5016**



**Environment-friendly and highly adhesive even to oily surfaces**

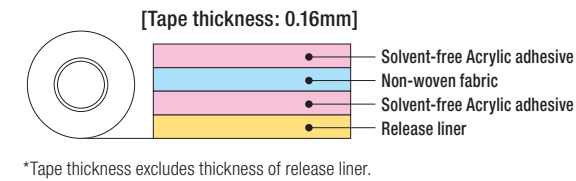
This double-coated adhesive tape exhibits a low VOC discharge level with the use of solvent-free adhesive.  
Awarded the 46th "Environmental Award" in Japan.

\*VOC: Volatile Organic Compound

**Features**

- Organic solvents, for example toluene, xylene, ethyl acetate, are not contained.
- Offers excellent adhesion to surfaces which some oil is remaining on.
- Suitable for attachment of metal plates, plastics and foam materials

**Structure**



**Properties**

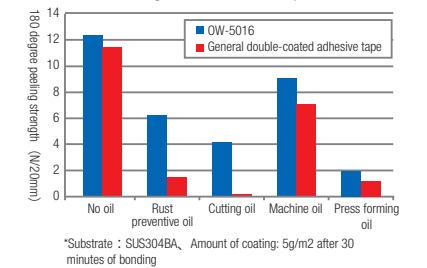
■ 180° peeling force for each substrate (N/20mm)

Substrate	OW-5016
Stainless	15.5
Ether urethane foam	2.5
Ester urethane foam	9.3

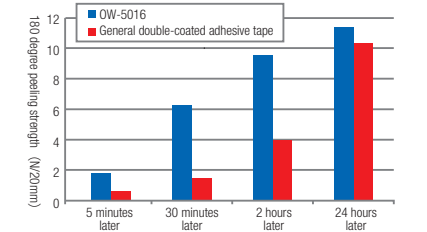
**Applications**

- Bonding of metal plates and cushioning materials in automobile interior.
- Bonding of plastic plates and films or cushioning materials in OA equipment or home appliances.

■ Adhesive strength to various oily substrate

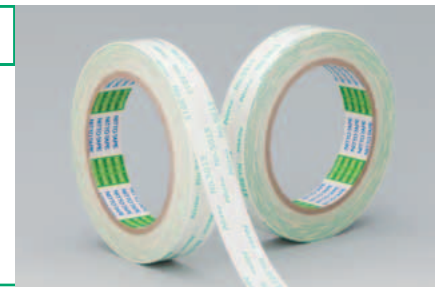


■ 180 degree peeling strength -Oil surface by crimping time-



**Low VOCs Double-coated adhesive tape No.5015EF**

**No.5015EF**



**Environmental-responsive double-coated adhesive tape**

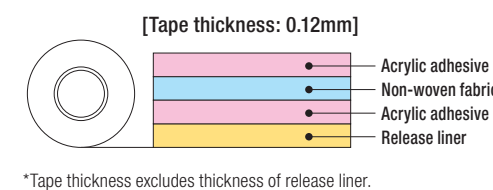
A double-coated tape made of non-woven fabric with reduced VOC discharge that is highly adhesive to substrates such as metals and plastics.

\*VOC: Volatile Organic Compound

**Features**

- Product with reduced VOC discharge.
- Exhibits excellent adhesiveness to a variety of substrates such as metals and plastics.
- Exhibits excellent adhesiveness from high to low temperatures.

**Structure**

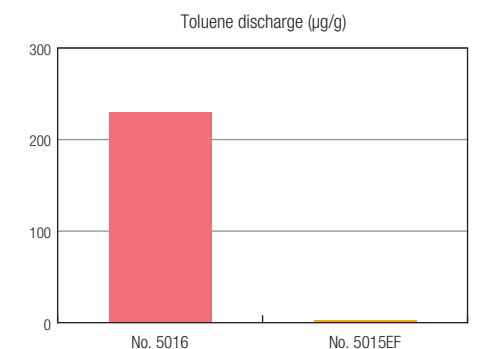


**Properties**

■ 180° peeling adhesive strength for each substrate (N/20mm)

Substrate	No.5015EF
Stainless	14.0
PE	7.0
PP	12.0

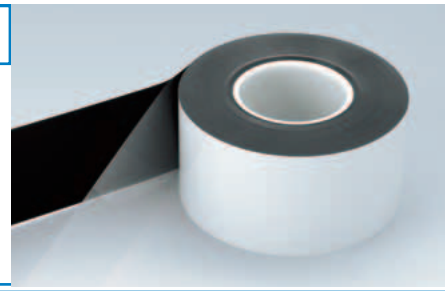
■ VOC emission measurement values



**Applications**

- Fixing home appliances sound-absorbing material and automobile interior material.

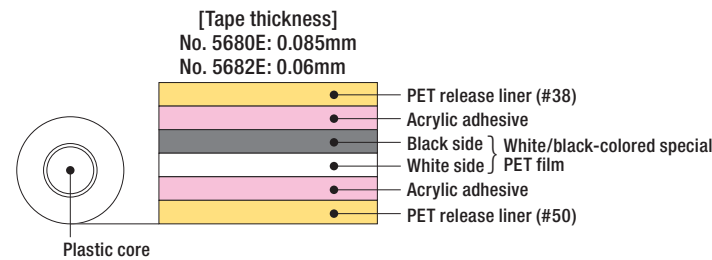
**PET-based light-shielding/reflective double-coated adhesive tape No.5680E/No.5682E**



For applications that require light-shielding and reflection function  
 No. 5680E and No. 5682E are unique double-coated adhesive tapes that use a special black and white carrier. The tape achieves the dual function of blocking out and reflecting light. Ideal for fastening LCDs and backlight module components.

- Features**
- Using a white/black-colored special carrier, hardly absorbs the light from the white-colored side.
  - Excellent light shielding performance thanks to the special carrier.
  - The adhesive exhibits excellent bonding performance to various substrates.
  - Halogen-free (\*Chlorine compounds are purposely not used.)
  - Contains none of the six hazardous materials restricted by the RoHS Directive

**Structure**



\*Tape thickness excludes thickness of release liner.

**Properties**

■ 180° peeling force

Product No.	Thickness (mm)	180° peeling force*1 (N/20mm)	Holding strength*2
No.5680E	0.085	15.0	0.2
No.5682E	0.06	13.0	0.3

\*1 Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.  
 \*2 Substrate: phenol resin plate; deviation distance was measured after 1 hour of 500 gram loading at 40°C.

**Applications**

- Fastening of sheets around LCDs and backlight module components
- Blocking out and reflecting light of backlight

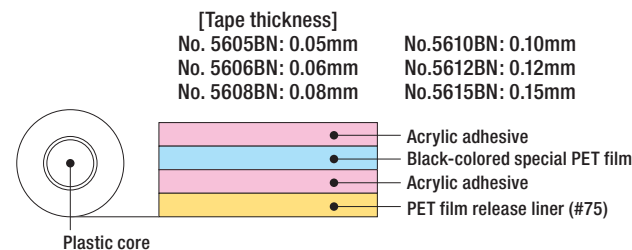
**PET-based double-coated adhesive tape No.56xxBN**



For applications that require light-shielding function  
 Excellent processability enabled by PET film carrier. Ideal for fastening LCDs and backlight module components.

- Features**
- Adheres well to all types of substrates
  - Special carrier ensures excellent light-shielding performance.
  - Employs dust-free materials such as a PET film release liner and plastic core
  - Halogen-free (\*Chlorine compounds are purposely not used.)
  - Contains none of the six hazardous materials restricted by the RoHS Directive

**Structure**



\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No.5605BN	0.05	11.0
No.5606BN	0.06	13.1
No.5608BN	0.08	15.1
No.5610BN	0.10	16.9
No.5612BN	0.12	20.5
No.5615BN	0.15	21.3

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

- Applications**
- Fastening of sheets around LCDs and backlight module components
  - Fastening of FPC for LCDs

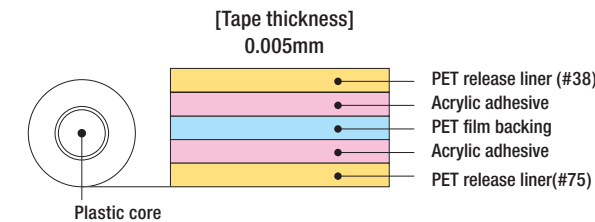
**PET-based ultrathin double-coated adhesive tape No.5600**



For fixing parts and sheets where minimum thickness is required  
 No. 5600 is a double-coated adhesive tape made of highly workable, dust-free materials (plastic release liner and core are used).

- Features**
- A very thin double-coated adhesive tape with an overall thickness of 5 μm
  - The significantly reduced tape thickness ensures low thermal resistivity.
  - The minimum thickness makes this product suitable for bonding where space and clearance are limited.
  - The PET release liner and plastic core produce minimal dust.

**Structure**



\*Tape thickness excludes thickness of release liner.

**Properties**

■ 180° peeling force according to type of substrate

Substrate	Peeling force (N/20mm)
Stainless steel	5.0
Acrylic	4.0
PC	4.8
PSt	4.4
ABS	3.6
Glass	4.8

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

■ Thermal resistivity and thermal conductivity

Thickness (mm)	Thermal resistivity V (cm² K/W)	Thermal conductivity (W/mK)
0.005	0.48	0.10

\*Measured by the steady heat flux method/sample size/clamp load/heater temperature

**Applications**

- Fixing a wide variety of sheets and films for small LCD modules such as in smart phones
- Fixing thin-layer sheets and films such as heat-release sheets

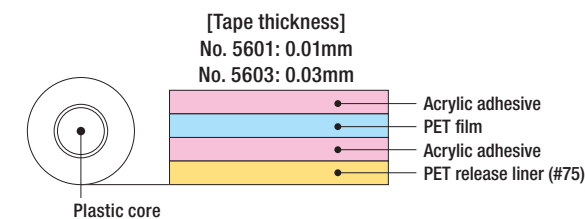
**Thin-structured PET double-coated adhesive tape No.5601/No.5603**



For fixing thin components  
 No. 5601 and No. 5603 double-coated adhesive tapes provide superior processability employing dust-free materials (the release liner and core are made of plastic).

- Features**
- Suitable for bonding in limited space
  - PET film carrier enables uniform tape thickness.
  - Excellent processability and workability provided by the carrier
  - Employs dust-free materials such as PET release liner and plastic core
  - Halogen-free (\*Chlorine compounds are purposely not used.)
  - Contains none of the six hazardous materials restricted by the RoHS Directive

**Structure**



\*Tape thickness excludes thickness of release liner.

**Applications**

- Fastening of sheets around LCDs and backlight module components
- Fastening of film materials inside small electronic equipment



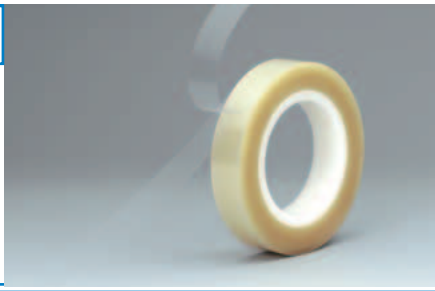
**Properties**

■ 180° peeling force according to temperature (using stainless steel) (Unit: N/20mm)

Product No.	23°C	40°C	60°C	80°C
No.5601	6.0	7.8	6.2	6.1
No.5603	9.0	9.1	7.4	6.6

\*Measured by peeling in a 180° direction at a speed of 300mm/min with 0.025mm PET lining  
 \*Tape pressure application and measurement at temperature given in the table above.

## Double-coated adhesive tape with PET carrier No.5605/No.5606/No.5608/No.5610/No.5612/No.5615



### For applications that require thickness control

Double-coated adhesive tape with PET film carrier offers excellent processability, dimensional stability and workability.

#### Features

- The PET carrier ensures excellent workability.
- Provides excellent adhesiveness to a wide variety of substrates
- Use of PET film release liner and plastic core eliminates concerns about paper dust
- Halogen-free (\*chlorine compounds are purposely not used)
- Contains none of the six hazardous materials restricted by the RoHS Directive

#### Applications

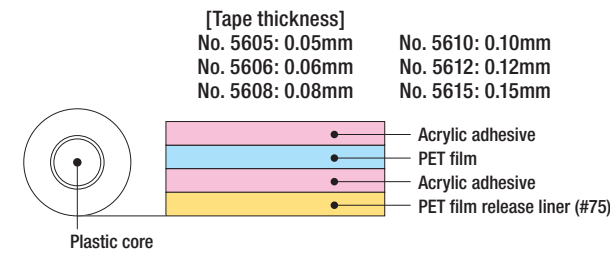
- Fastening of sheets around LCDs and backlight module components
- Fastening of FPC for LCDs

#### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No.5605	0.05	11.0
No.5606	0.06	13.1
No.5608	0.08	15.1
No.5610	0.10	16.9
No.5612	0.12	20.5
No.5615	0.15	21.3

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

#### Structure



\*Tape thickness excludes thickness of release liner.

## Repulsion-resistant PET-based double-coated adhesive tapes No. 5603R/No. 5605R/No. 5610R



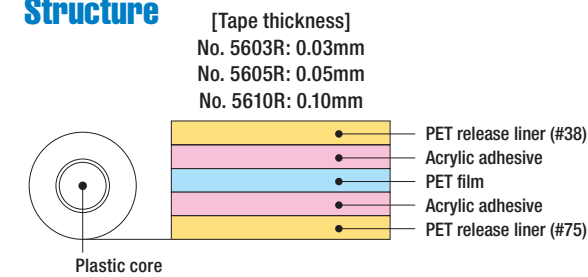
### For fixing electronic components

These products are suitable for applications where repulsion resistance is required, such as around displays and in bent portions for fixing FPC.

#### Features

- An adhesive with excellent repulsion resistance is used.
- The carrier film ensures excellent processability and workability.
- Available with a wide variety of thicknesses.
- Double-peeling type with two release liners.
- Halogen-free (\*Chlorine compounds are purposely not used.)
- Contains none of the six hazardous materials restricted by the RoHS Directive

#### Structure



\*Tape thickness excludes thickness of release liner.

#### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No.5603R	0.03	9.0
No.5605R	0.05	11.5
No.5610R	0.10	16.0

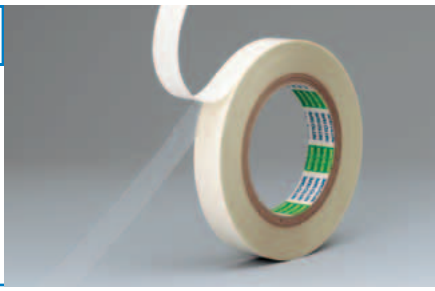
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

#### Applications

- Fixing LCD and sheets around backlight module
- Fixing FPC

## Double-coated adhesive tape with PET carrier No.5620A

No.5620A



### For applications that require thickness control

No. 5620A double-coated adhesive tape with PET film carrier offers excellent processability, dimensional stability and workability.

#### Features

- The excellent shape stability during application enables accurate positioning
- The PET carrier ensures excellent workability.
- Excellent adhesiveness to a wide variety of substrates
- Halogen-free (\*chlorine compounds are purposely not used)
- Contains none of the six hazardous materials restricted by the RoHS Directive

#### Structure



\*Tape thickness excludes thickness of release liner.

#### Applications

- Fixing of LCD cushion materials for mobile phones and digital cameras
- For various spacing applications

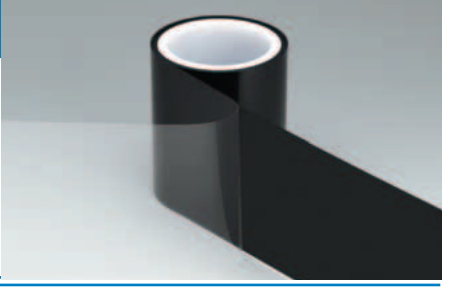
#### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No.5620A	0.20	20.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

## PET carrier anti-fingerprint ultra thin black adhesive tape UTS series

UTS series



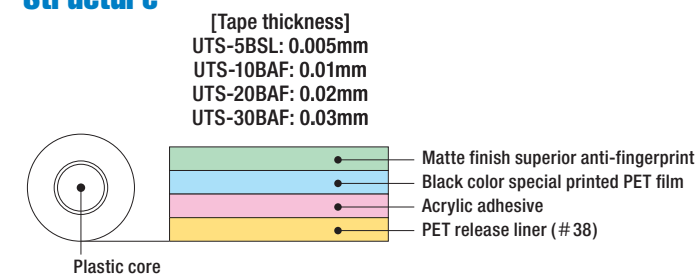
### For fixing thin black components

UTS series adhesive tape used anti-fingerprint type of black special printed ultra thin carrier and surface has superior anti-fingerprint.

#### Features

- Very thin and suitable for adhesion in spaces with limited clearance
- Highly adhesive to various substrates
- Resistant to foreign matter during use thanks to plastic core and PET release liner
- Resistant to stains such as fingerprints due to special mat anti-fingerprint treatment on the rear
- Halogen-free (\*Chlorine compounds are purposely not used.)
- Contains none of the six hazardous materials restricted by the RoHS Directive

#### Structure



\*Tape thickness excludes thickness of release liner.  
\*UTS-5BSL is without anti-fingerprint layer.

#### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
UTS-5BSL	0.005	2.6
UTS-10BAF	0.01	3.1
UTS-20BAF	0.02	8.2
UTS-30BAF	0.03	10.2

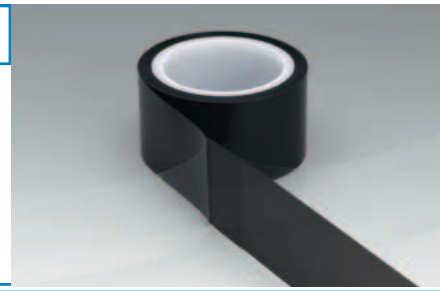
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

#### Applications

- Protecting and masking of mobile device and parts

## PET carrier ultra thin black double-coated adhesive tape

UTD series



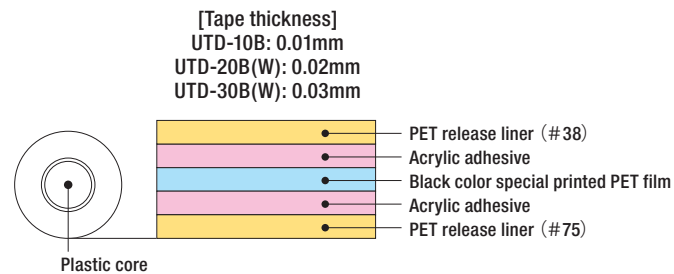
### For fixing thin black components

UTD series double-coated adhesive tapes provide superior process ability employing dust-free materials (the release liner and core are made of plastic).

### Features

- Very thin and suitable for adhesion in spaces with limited clearance
- Highly adhesive to various substrates
- Resistant to foreign matter during use thanks to plastic core and PET release liner
- Halogen-free (\*Chlorine compounds are purposely not used.)
- Contains none of the six hazardous materials restricted by the RoHS Directive

### Structure



\*Tape thickness excludes thickness of release liner.

- ### Applications
- Masking and light-shielding of mobile device and parts

### Properties

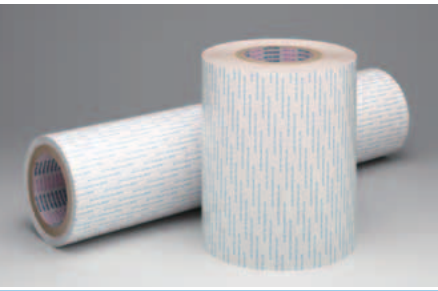
■ 180° peeling force

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
UTD-10B	0.01	3.0
UTD-20B(W)	0.02	7.5
UTD-30B(W)	0.03	10.8

\*Sample size: 20mm width  
 Method of pressing: 2 kg roller is applied in one back-and-forth motion  
 Tension speed: 300mm/min

## Heat-resistant double-coated adhesive tape

No.5919MLW



### Heat-resistant tape for use with components such as FPCs\*

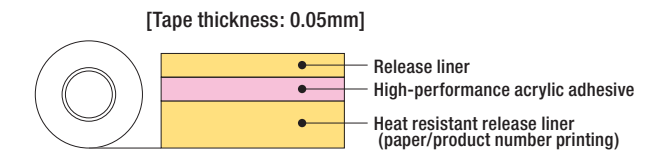
The release liner and adhesive can withstand the high temperatures (peak at 260°C) of the lead-free soldering process. Suitable for fixing FPCs and stiffener or FPCs and housings.

\*FPC: Flexible Printed Circuits

### Features

- Non-carrier adhesive tape with excellent heat resistance and bonding performance
- Release liner, which can be used in soldering processes, is also heat resistant.
- The tape is UL969 certified

### Structure



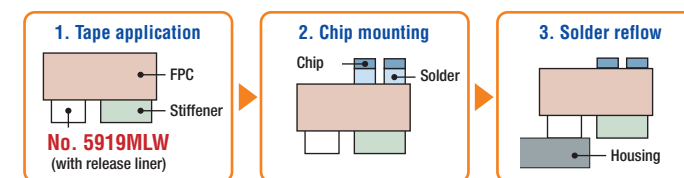
\*Tape thickness excludes thickness of release liner.

### Properties

Thickness (mm)	180° peeling force (N/20mm) (For polyimide film)	Carrier
0.05	11.8	No carrier

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

### Chip-mounting process



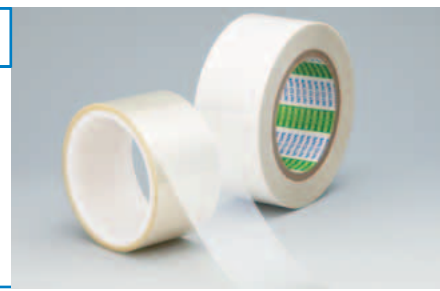
### Applications

- Fixing FPCs and stiffener
- Fixing FPCs to electronic equipment housing



## Sebum-resistance double-coated adhesive tape

No. 564xx Series



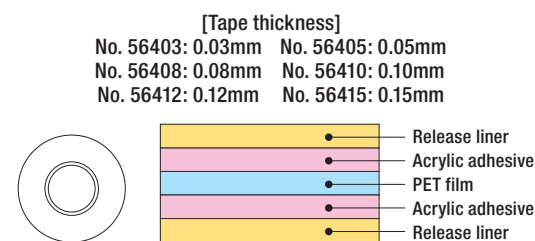
### For applications that require sebum-resistance.

No. 564xx series exhibits good sebum resistance compared with conventional products. Superior workability by using PET carrier.

### Features

- Superior resistance to sebum.
- Excellent workability provided by PET carrier.
- Halogen free. (\*Chlorine compounds are purposely not used.)

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

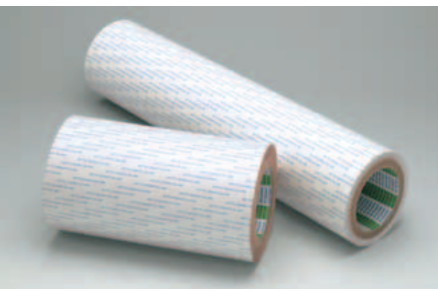
- Fixing of parts for electronics devices such as smartphone

### Properties

Product No.	180° peeling force(N/20mm) (For Stainless)	Adhesion retention after immersion (%)			
		Long chain fatt	Alcohol	Detergent	Cosmetics
No. 56405	18.0	60	99	99	70
No. 56410	22.0	70	99	99	80
No. 56415	22.4	80	99	99	85

## Thin heat-resistant double-coated adhesive tape with carrier

No.585



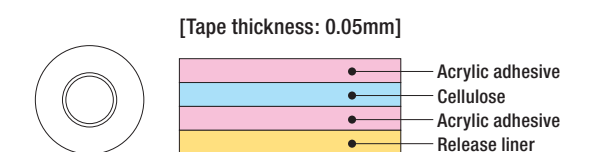
### Heat-resistant tape for use with components such as FPCs

It is thin heat-resistant double-coated adhesive tape which can perform even in the lead-free soldering process (temperatures up to 260°C). It shows outstanding repulsion-resistance and excellent processability. Can be used in the lead-free soldering process without removing the release liner.

### Features

- High repulsion resistant to force such as bent FPCs
- Excellent converting and working performance during die cutting
- Available in double release liner type (PN: No. 585W)

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Thickness (mm)	180° peeling force (N/20mm) (For polyimide film)	Carrier
0.05	13.0	Cellulose

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining

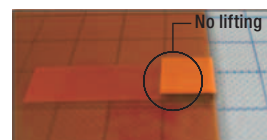
### Repulsion Resistance

#### [Preprocessing]

No. 585 is laminated to a FPC, and the FPC is passed through a solder reflow process (peak at 250°C).

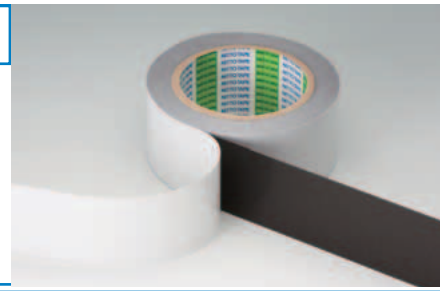
#### [Measurement]

The preprocessed sample is adhered to one side of a polyimide film so that the adhered area is 10mm x 10mm. Then, force is applied with a 2kg roller in two directions. After remaining at room temperature for 30 minutes, the sample is passed through a 60°C environment for 72 hours, after which lifting is checked.



•Check lifting after 72 hours at 60°C

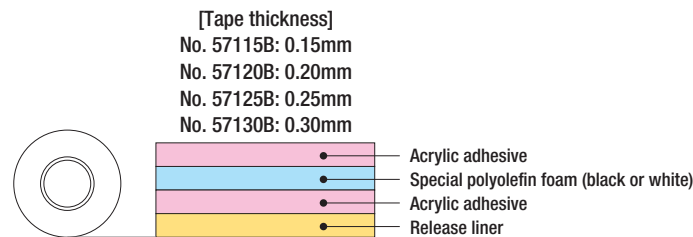




For applications where waterproofing and strong adhesion are required  
Using a highly-flexible foam base, provides an excellent adherence to uneven surfaces. Excellent for waterproofing properties as well as strong adhesion performance.

- Features**
- Based on flexible thin-layer foam backing.
  - Exhibits good followability to substrate undulations and excellent adhesion and waterproofness.
  - Adheres strongly to metals and plastics.
  - Excellent adhesion to polypropylene and other plastic materials.
  - Halogen-free (\*Chlorine compounds are purposely not blended.)
  - Contains none of the six hazardous materials restricted by the RoHS Directive

**Structure**



\*Tape thickness excludes thickness of release liner.

**Applications**

- For fixing mobile phone display panels and various electronic components
- Fixing for waterproofing purposes
- Fixing various name plates

**Properties**

■ 180° peeling force

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)
No.57115B	0.15	17.0
No.57120B	0.20	19.0
No.57125B	0.25	21.0
No.57130B	0.30	21.0

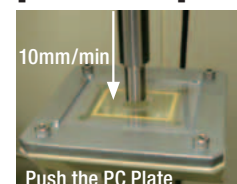
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

■ Push out force

Product No.	Push out force (N/cm <sup>2</sup> )
No.57115B	32.1
No.57120B	31.5
No.57125B	39.8
No.57130B	38.8

\*Measured by peeling in a 90° direction at a speed of 10mm/min at 23°C with 0.025mm PET lining.

**[ Test method ]**



Push out test machine

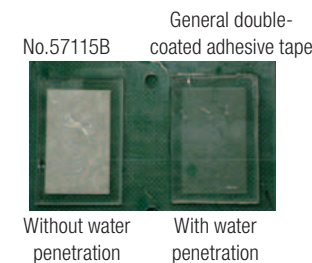
■ Waterproofness test

No.57115B	Equivalent to IPX7
No.57120B	
No.57125B	
No.57130B	

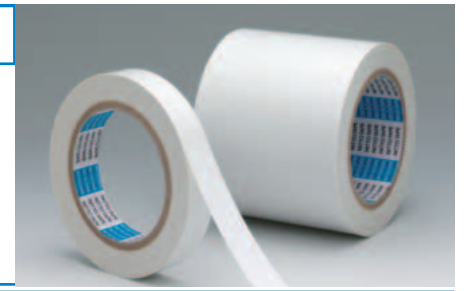
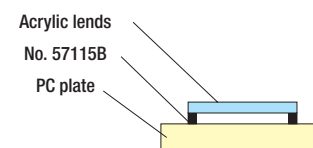
Double-coated tape size: 40 x 60 mm (framed with 1 mm line width)  
Method of pressing: A 2 kg roller is applied in one back-and-forth motion at 23°C/50% RH.

Test information: Tested in accordance with the IPX7 requirement (measured after immersion in 23°C water (1m deep, 30 min.).

**External appearance of sample**



**Cross-sectional view of sample**

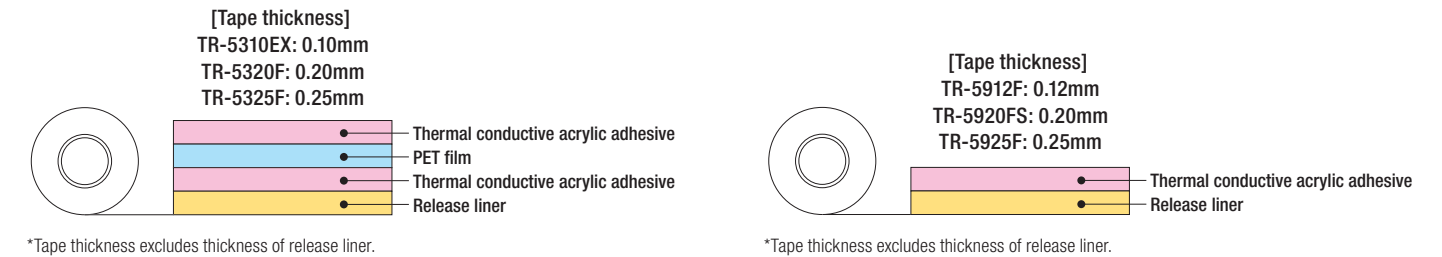


**Fixing of LED substrate to chassis**

Thermal conductive adhesive tape TR-5310EX/TR-5325F are double-coated adhesive tape that offers superior thermal conductive property by using the thermal conductive adhesive layer.

- Features**
- Superior thermal conductive property.
  - Excellent adhesive and superior adhesive reliability
  - Excellent workability and processability.
  - Six restricted substances by RoHS are not contained.

**Structure**



\*Tape thickness excludes thickness of release liner.

\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)	Thermal conductivity* [ W/m · K ]	Thermal resistance [ K cm <sup>2</sup> /W ]
TR-5310EX	0.10	9.0	0.4	3.6
TR-5320F	0.20	11.0	1.0	3.2
TR-5325F	0.25	11.0	1.0	3.5
TR-5912F	0.12	16.0	1.1	1.7
TR-5920FS	0.20	16.0	1.1	2.5
TR-5925F	0.25	18.0	1.1	2.8

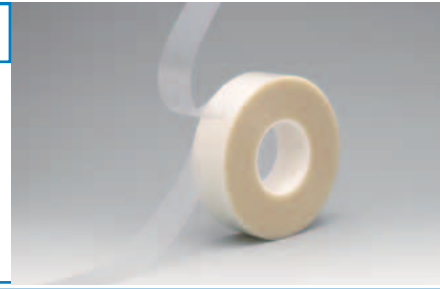
\*Laser flash method at 23°C

**Applications**

- Fixing of LED substrate to chassis
- Fixing of CPU to heat sink or heat radiation fan
- Fixing of various semiconductor packages to heat sinks
- Fixing of electronic components to heat radiation sheet

## Double-coated adhesive tape for precision electronics parts

DSP1220(60)



### For low-outgas and silicone-free needs

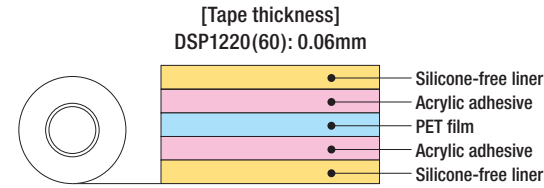
Excellent heat resistance and low outgas with carrier.

Suitable for fixing parts or sealing holes of precision electronic devices that are adversely affected by exposure to gases such as HDDs.

### Features

- Thin-layer double-coated tape with carrier
- Superior repulsion-resistance and weather resistance
- Suitable for bonding in limited space because of its thin layer

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

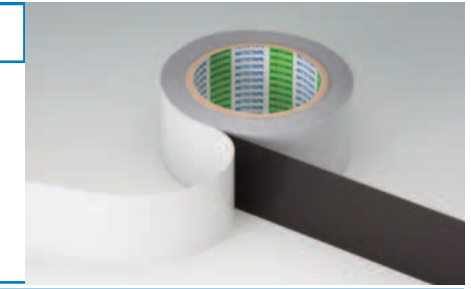
- Sealing of holes of HDD
- Fastening of HDD parts
- Fastening of damping materials for precision equipment

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)
DSP1220(60)	0.06	9.5

## Thin foam-based waterproof double-coated adhesive tape

No.57210B



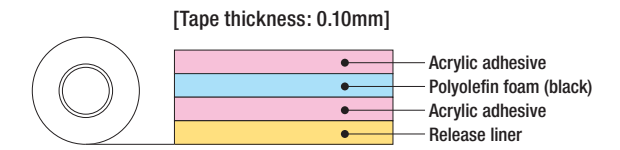
### For applications in which waterproof performance and high adhesion are required in a limited space

Base on flexible thin-layer foam carrier, this series exhibits excellent followability to substrate undulations.

### Features

- Based on flexible thin-layer foam backing.
- Exhibits good followability to substrate undulations and excellent adhesion and waterproofness.
- Adheres strongly to metals and plastics.
- Halogen-free (\*Chlorine compounds are purposely not blended.)

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)	-5°C Drop Impact Testing [time]	Waterproofness test
No.57210B	0.10	10.0	>60 times	Equivalent to IPX7

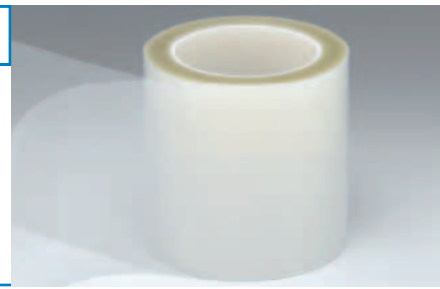
\*Measured by peeling in a 180° direction at a speed 300mm/min at 23°C with 0.025mm PET lining

### Applications

- Fixing mobile phone display panels and various other components
- Fixing for waterproofing purposes
- Fixing various name plates

## Double-coated adhesive tape for precision electronics parts

LA-50/100



### For low-outgas needs

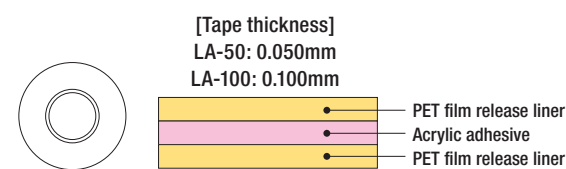
Excellent heat-resistance and low outgas with no carrier.

Suitable for fixing parts or sealing holes of precision electronic devices that are adversely affected by exposure to gases such as HDDs.

### Features

- Thin-layer double-coated tape with no carrier
- Superior heat resistance and weather resistance
- Suitable for bonding in limited space because of its thin layer

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

- Sealing of holes of HDD
- Fastening of HDD parts
- Fastening of damping materials for precision equipment

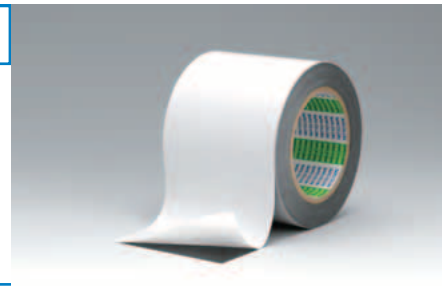
### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)
LA-50	0.050	10.0
LA-100	0.100	13.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Strong foam carrier waterproof double-coated adhesive tapes

No.57115SB/No.57120SB/  
No.57125SB/No.57130SB



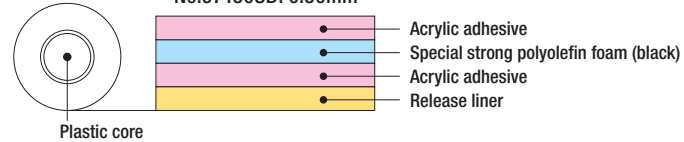
For applications where waterproofing and strong adhesion are required  
This is a type with stronger foam base. With excellent push out force, provides efficient waterproofing property even in small areas such as narrow frames.

### Features

- The enhanced and flexible thin-layer foam carrier based makes the adhesive strength effective even when applied to substrates with a small adhesive area such as narrow frames.
- Exhibits good followability to substrate undulations and excellent adhesion and waterproofness.
- Adheres strongly to metals and plastics.
- Excellent adhesion to polypropylene and other plastic materials.
- Halogen-free (\*Chlorine compounds are purposely not blended.)
- Contains none of the six hazardous materials restricted by the RoHS Directive

### Structure

[Tape thickness]  
No.57115SB: 0.15mm  
No.57120SB: 0.20mm  
No.57125SB: 0.25mm  
No.57130SB: 0.30mm



\*Tape thickness excludes thickness of release liner.

### Applications

- Fixing of parts for mobile phone and electronic parts.
- Fixing of parts in regard to purpose of water proof.
- Fixing of name plate.

### Properties

#### 180° peeling force

Product No.	Thickness (mm)	180° peeling force (N/20mm) (for stainless steel plate)
No.57115SB	0.15	19.0
No.57120SB	0.20	17.0
No.57125SB	0.25	20.0
No.57130SB	0.30	20.0

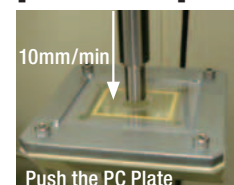
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

#### Push out force

Product No.	Push out force (N/cm <sup>2</sup> )
No.57115SB	41.2
No.57120SB	40.8
No.57125SB	40.1
No.57130SB	37.2

\*Measured by peeling in a 90° direction at a speed of 10mm/min at 23°C with 0.025mm PET lining.

#### [ Test method ]



Push out test machine

#### Waterproofness test

No.57115SB	Equivalent to IPX7
No.57120SB	
No.57125SB	
No.57130SB	

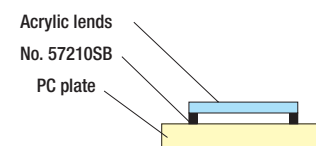
Double-coated tape size: 40 x 60 mm (framed with 1 mm line width)  
Method of pressing: A 2 kg roller is applied in one back-and-forth motion at 23°C/50% RH.

Test information: Tested in accordance with the IPX7 requirement (measured after immersion in 23°C water (1m deep, 30 min.).

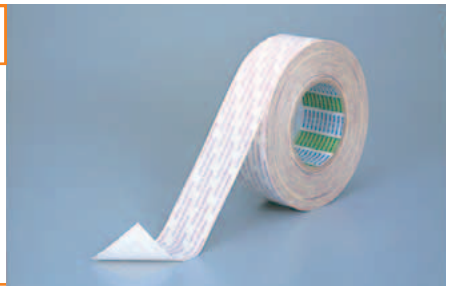
#### External appearance of sample



#### Cross-sectional view of sample



## Double-coated adhesive tape with re-peeling and strong adhesive properties No.5000NS

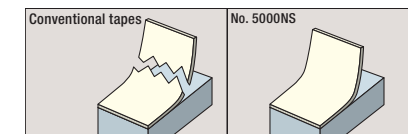


### Strong adhesion and re-peeling

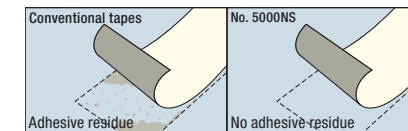
Flexible and strong tape made of non-woven fabric enables a clean removal without tearing, and helps to recycle components.

### Features

- Material of tape is strong and will not tear during removal, finishing it in a snap.



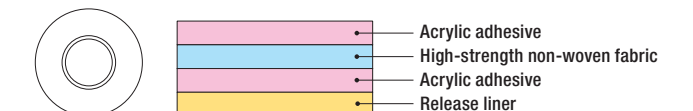
- Unique adhesive agent ensures minimal adhesive residue



- Superior adhesive performance provides outstanding reliability.
- The tape is UL969 certified (File No. PGGU2. MH13557).

### Structure

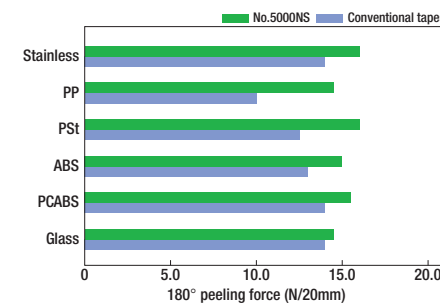
[Tape thickness: 0.16 mm]



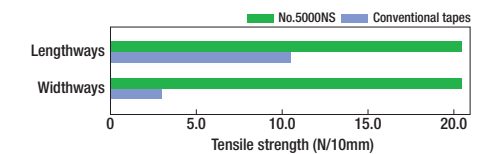
\*Tape thickness excludes thickness of release liner.

### Properties

#### Adhesive properties



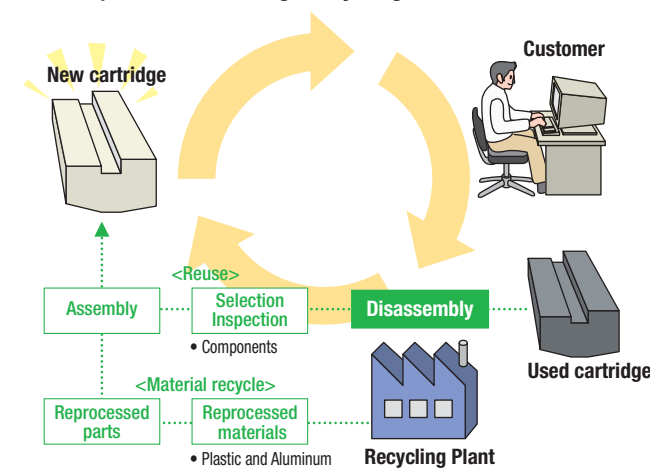
#### Tensile strength



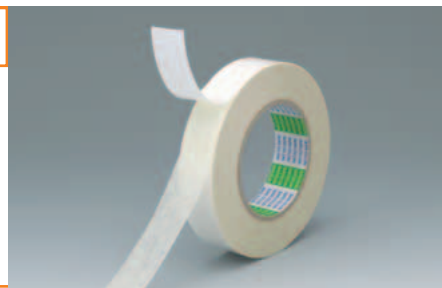
### Applications

- Bonding of cushioning and sealing materials in: printers, copiers, flat TVs, air conditioners, other OA equipment and home appliances
- Bonding of PET films and internal parts in: mobile phones, personal computers and more

#### ◆Example: Toner cartridge recycling



**Thick, strong adhesion and re-peeling double-coated adhesive tape No.5000ND**

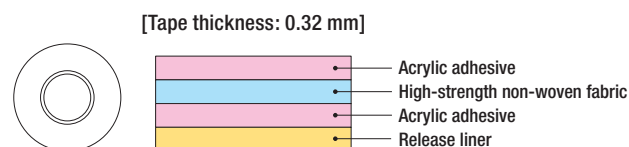


**Removable adhesive tape with excellent adhesive strength**

A thick, double-coated adhesive tape made of acrylic adhesive which strongly adheres to a wide variety of substrates

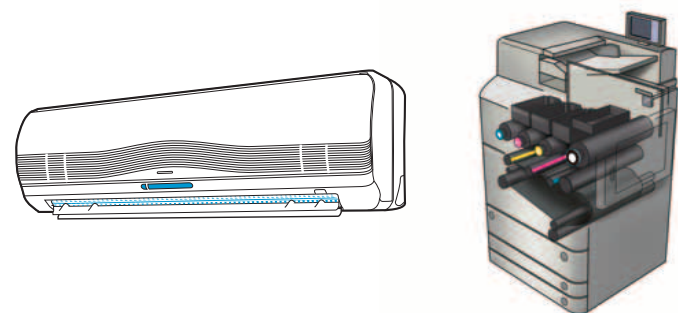
- Features**
- Heavyweight and excellent adhesive strength during low-pressure bonding or adhesion to rough surfaces
  - Wide range of application and operation temperature with excellent parts-fixing performance
  - Almost no tape breakage during rework

**Structure**



\*Tape thickness excludes thickness of release liner.

- Applications**
- General-purpose adhesive for metal plates, plastic plates, urethane series foams
  - Adhesive for urethane cushion materials and sealing materials for office equipment such as printers and copiers and home electric appliances such as flat TVs and air-conditioners

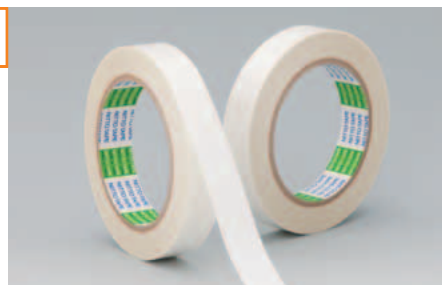


**Properties**

Product No.	Thickness (mm)	180° peel force (N/20mm) (to stainless steel)	Carrier
No.5000ND	0.32	17.0	High-strength non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Strong adhesion and re-peeling double-coated adhesive tape GA907**

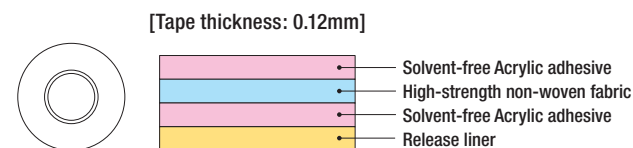


**Highly adhesive and easy to remove**

Tape developed for parts-fixing of office equipment and home electric appliances. The use of flexible and strong non-woven fabric as a base means that the tape does not easily tear when re-peeling, making it suitable for uses that require re-peeling performance.

- Features**
- Material of tape is strong, so the material will not easily tear when the tape is re-peeled.
  - Does not leave residue, so it exhibits superior re-peeling performance.
  - Wide range of applications and operation temperatures with excellent parts-fixing performance.

**Structure**



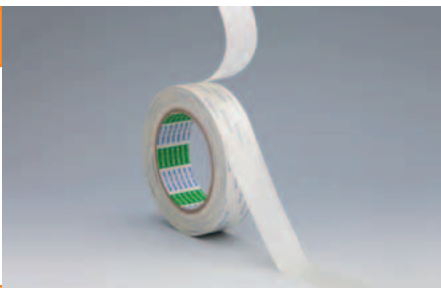
\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peel force (N/20mm) (to stainless steel)
GA907	0.12	16.5

- Applications**
- General-purpose adhesive for metal plates, plastic plates, plastic films, urethane series foams
  - Adhesive for urethane cushion materials and sealing materials for office equipment and home electric appliances such as flat TVs and air-conditioners
  - Applications where removal and reapplication of parts is required

**Double-coated adhesive tape for rubber fixing VR-5000/VR-5300/VR-5300H**

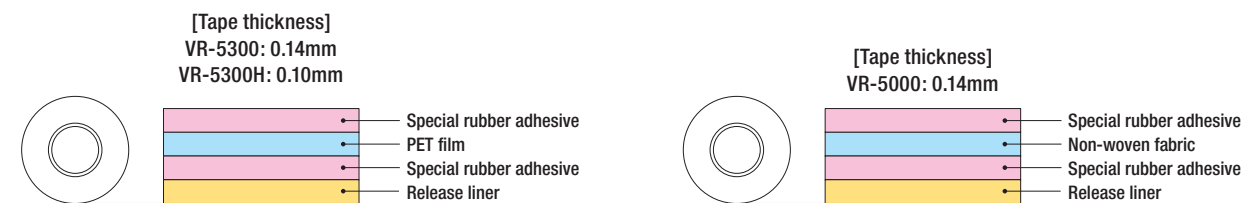


**Applicable for adhesion to curved surfaces**

Double-coated adhesive tape coated with PET film carrier special rubber adhesive. Excels in adhesion to curved surfaces.

- Features**
- Superior adhesive strength for materials such as metal and plastic plate.
  - Excellent repulsion resistance

**Structure**



\*Tape thickness excludes thickness of release liner.

\*Tape thickness excludes thickness of release liner.

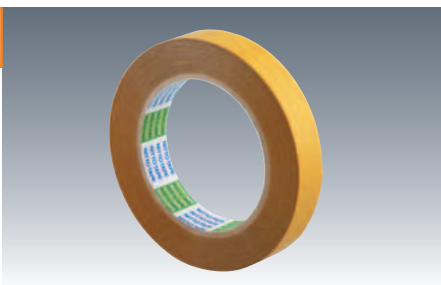
**Properties**

Product No.	Thickness (mm)	180°peeling force (N/20mm) (to stainless steel)
VR-5000	0.14	30.0
VR-5300	0.14	30.0
VR-5300H	0.10	25.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

- Applications**
- For bonding of metals, plastics, rubber plates and foams.
  - For fixing of materials of electrical equipment such as OA or home appliances.

**Double-coated adhesive tape with excellent reworkability No.535A**

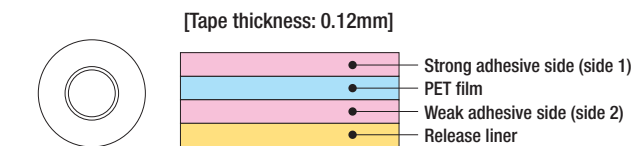


**Removable adhesive tape used for applications in which both weak and strong adhesion are required**

No. 535A is a PET film carrier double-coated adhesive tape with different adhesive strengths on the front and back faces.

- Features**
- Side 1 is coated with a strong adhesive, and side 2 with a weak adhesive.
  - Tape does not easily tear when removing plastic printing plates.

**Structure**



\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)		Carrier
		Side 1	Side 2	
No.535A	0.12	7.5	5.4	PET film

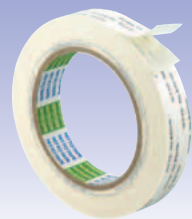
\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

- Applications**
- Bonding of plastic printing plate to printing platform or rotary cylinder



## Flame-retardant double-coated adhesive tape

No.5011N



### Flame-retardant tape

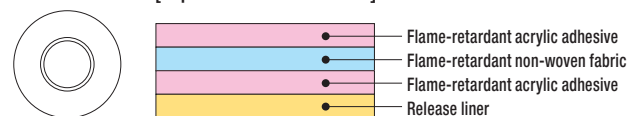
No. 5011N double-coated adhesive tape conforms to flame retardancy standards. Our No. 5011N flame-retardant double-coated adhesive tape is UL-94 VTM-0 certified.

### Features

- Superior initial adhesion
- High adhesiveness to rough surfaces
- Excellent low temperature adhesion
- UL-94 VTM-0 certified [File No. E52859 (M)]

### Structure

[Tape thickness: 0.15 mm]



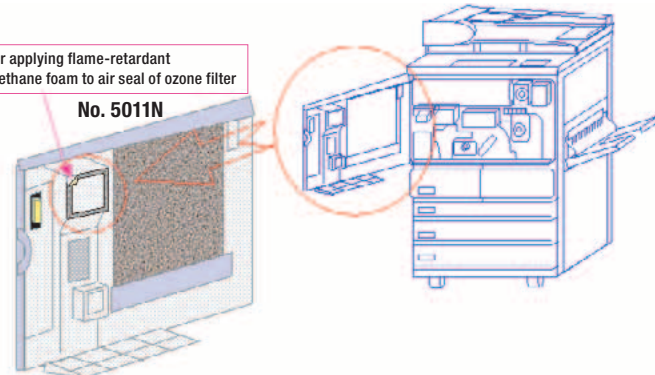
\*Tape thickness excludes thickness of release liner.

### Applications

- Electronic devices such as OA equipment or household appliances
- Interior materials for automobiles, trains and airplanes
- Application of other flame-retardant materials

For applying flame-retardant urethane foam to air seal of ozone filter

No. 5011N



### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.5011N	0.15	14.3	Flame-retardant non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Double-coated adhesive tape for temporary fixing of construction materials PF-370(S)

### For adhesion to rough surfaces

PF-370(S) double-coated adhesive tape uses special flexible foam polyethylene as a carrier. Weather-resistant adhesive is applied on both sides, making it ideal for temporary fixing of construction materials.

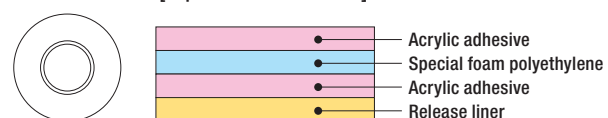


### Features

- High level of flexibility, and excellent adherence to rough surfaces
- Excellent initial adhesion
- Excellent adhesion, for more than sufficient holding or fixing while adhesive is hardening
- Excellent low temperature adhesion

### Structure

[Tape thickness: 1.2mm]



\*Tape thickness excludes thickness of release liner.

### Applications

- Temporary fixing of residential interior finishing materials
- Temporary fixing of nameplates



### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
PF-370(S)	1.2	17.0	Special foam polyethylene

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Double-coated acrylic foam strong adhesive tape HYPERJOINT® H Series



### Strong adhesive property (for housing)

HYPERJOINT® double-coated adhesive tapes utilize highly flexible and durable acrylic foam to realize excellent adhesive strength, durability and heat resistance.

### Features

- Excellent flexibility, conforming to substrates with thermal distortion and deformation
- The flexible acrylic foam disperses peeling stress and realizes strong adhesion.
- High durability and heat resistance, making it suitable for outdoor use as well

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	90° peeling force (N/25mm) (For stainless steel)	Carrier
H9004	0.4	59	Acrylic foam (High-soft type)
H9008	0.8	80	
H9012	1.2	94	
H8004	0.4	71	Acrylic foam (Soft type)
H8008	0.8	91	
H8012	1.2	100	
H7004	0.4	86	Acrylic foam (Regular type)
H7008	0.8	119	
H7012	1.2	130	

\*72 hours after application

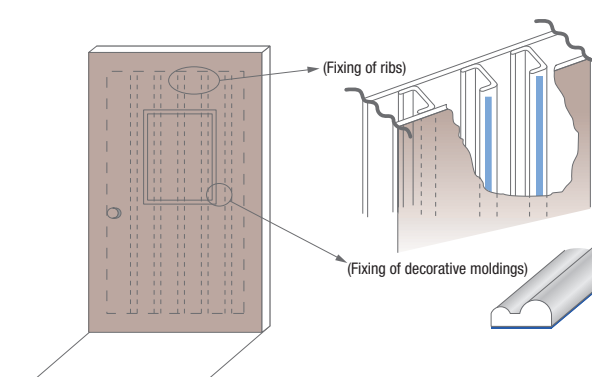
### Applications

- Fixing of decoration panels and name plates of home appliances/OA equipments
- Fixing of exterior components for houses, metal plates and reinforcement components
- Fixing of housing material, signboards and sign plates
- Fixing of exterior components for automobiles

For fixing of front panel of flat TV screen



For fixing of decorative moldings and ribs on metal doors



**Double-coated adhesive tape with superior transparency** HJ-3160W/HJ-9150W



**Superior transparency and heat resistance**

HJ-3160W and HJ-9150W are double-coated adhesive tapes that offer superior transparency. The tapes offer superior transparency, light resistance and heat resistance, and are ideal for bonding transparent materials. HJ-3160W is a double-coated adhesive tape that has a PET film carrier, whereas HJ-9150W doesn't employ a carrier.

**Features**

- Minimal volatile gas
- Offers high adhesive strength
- Excellent processability and workability

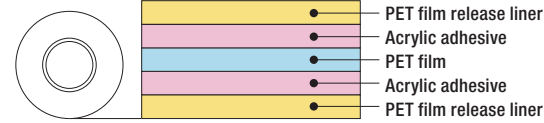
**Applications**

- Bonding of glass
- Fixing of LCD module components
- Fixing of electronic components

**Structure**

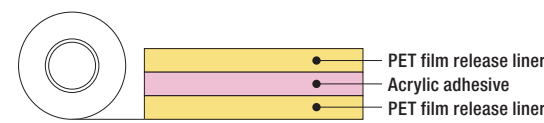
**HJ-3160W**

[Tape thickness: 0.1mm]



**HJ-9150W**

[Tape thickness: 0.05mm]



\*Tape thickness excludes thickness of release liner.

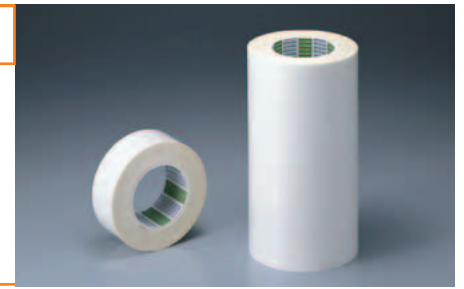
**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm)						Carrier
		Acrylic plate	Glass plate	PC plate	PET plate	Stainless steel plate	Aluminum plate	
HJ-3160W	0.1	11.3	14.7	11.3	10.3	14.2	11.8	PET film
HJ-9150W	0.05	11.3	9.8	7.9	7.4	10.8	8.3	No carrier

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Heat-resistant double-coated adhesive tape**

No.5915



**For heat resistance needs**

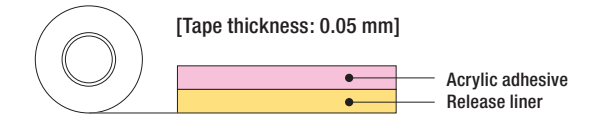
The tape provides superior heat resistance, adhesive strength and chemical resistance.

Because there is almost no volatilization from the adhesive, the tape is suitable for electrical and electronics fields that require soldering and washing with chemicals after the tape is applied. The non-carrier tape is easy to process and can be used for fine processing.

**Features**

- Superior heat and chemical resistance
- Thin layer, yet high adhesive strength and superior adhesive reliability

**Structure**

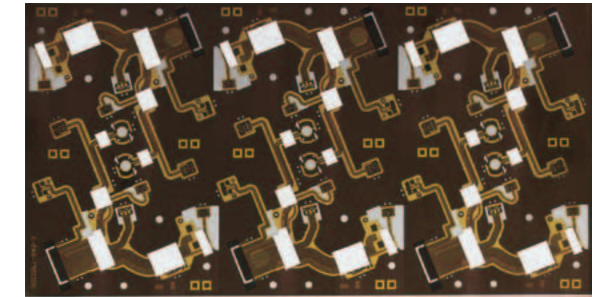


\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)	Carrier
No.5915	0.05	11.6	No carrier

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

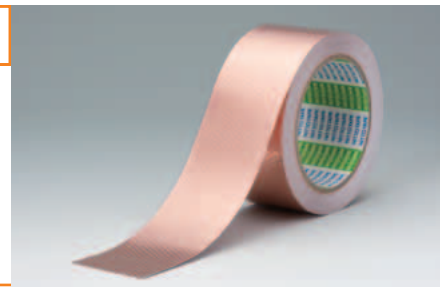


**Applications**

- Fixing of FPCs
- Fixing of film and gold foil for electronic components

**Electroconductive adhesive tapes**

NITOFIL® CT-311E



**For grounding electronic appliances and shielding electromagnetic waves**

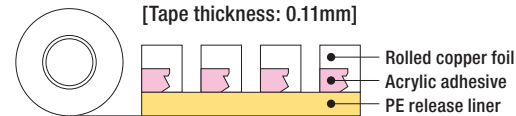
The NITOFIL® electroconductive tape ensures good conductivity with an acrylic adhesive applied to copper foil. It stably retains an electromagnetic wave shielding effect and electrical characteristics over long periods, and is used for grounding electronic appliances and shielding electromagnetic waves.

**Features**

- The low resistivity makes this product suitable for grounding and shielding in antistatic applications.
- Exhibits excellent bonding performance both initially and over time.
- Minimal increase in resistivity over time.
- The embossed rolled copper foil backing ensures good conductivity.

**Structure**

[Tape thickness: 0.11mm]



\*Tape thickness excludes thickness of release liner.

**Applications**

- For grounding electric/electronic appliances and shielding electromagnetic waves

**Properties**

Product No.	Carrier	Foil (mm)	Thickness (mm)	Peeling force (N/20mm) (For stainless steel)
CT-311E	Rolled copper foil	0.030	0.11	15.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Double-coated adhesive tape for silicone rubber

No.5302A



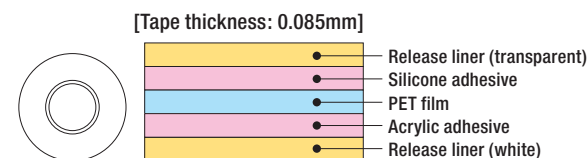
### For silicone rubber materials

No. 5302A double-coated adhesive tape consists of PET film coated on one side with silicone adhesive and on the other with acrylic adhesive.

### Features

- Side 1 (silicone adhesive): Uses silicone adhesive with superior electrical insulation properties that adheres well to silicone rubber.
- Side 2 (acrylic adhesive): Uses acrylic adhesive that exhibits superior adhesive strength for materials such as metal/plastic sheets.

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

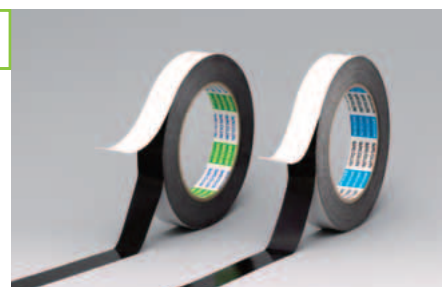
Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)		Carrier
	Side 1	Side 2	
0.085	10.0	11.4	PET film

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Applications** • Bonding of silicone rubber

## Double-coated adhesive tape for rubber fixing

VR-5311/VR-5321



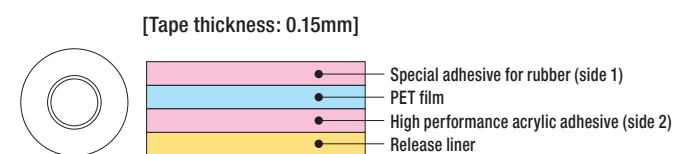
### For rubber materials

Double-coated adhesive tape consists of a PET film carrier with rubber adhesive on one side and acrylic adhesive on the other side. Ideal for binding rubber with metal or plastic.

### Features

- Ideal for binding vulcanized rubber such as chloroprene or ethylene-propylene-terpolymer to metal or plastic
- Eliminates the need to apply primer before use
- VR-5311's special adhesive for rubber features superior cohesion.
- VR-5321's special adhesive for rubber features superior initial adhesion.

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)		Carrier
		Side 1	Side 2	
VR-5311	0.15	20.5	11.5	PET film
		Side 2	11.5	
VR-5321	0.15	20.4	11.5	PET film
		Side 2	11.5	

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Applications** • Packing materials for household appliances or OA equipment (Bonding of or temporary fixing of vulcanized rubber cushioning materials)



## Double-coated adhesive tape for laminating all kinds of foam surfaces

No.501L



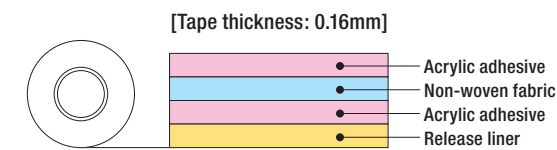
### For laminating all kinds of foam surfaces

No. 501L double-coated adhesive tape using a flexible non-woven fabric impregnated with pressure-sensitive adhesive is suitable for laminating processes for all kinds of foam, such as ether- or ester-based urethane foam. Excellent workability and processability for work involving laminating with rolls and punching.

### Features

- Excellent adhesiveness to rough surfaces
- Offers superior adhesiveness at low temperatures and exhibits stable performance even during the winter
- Excellent repulsion resistance, also prevents lifting of curved edges of foam

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.501L	0.16	10.0	Non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Applications** • For bonding urethane foam, etc.

## Double-coated adhesive tape for plastic or foam

TW-Y01



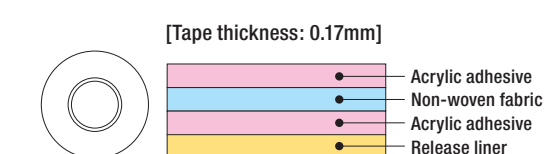
### For fixing PVC film

TW-Y01 double-coated adhesive tape consists of flexible non-woven fabric impregnated with pressure-sensitive adhesive. The tape can be easily applied to plastic such as polypropylene and the rough surface of foam as well as metal.

### Features

- Easily applied to rough surfaces like foam and plastic materials such as polypropylene as well as metal
- Excellent repulsion resistance

### Structure



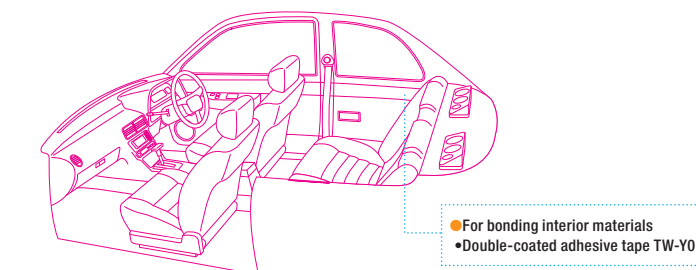
\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
TW-Y01	0.17	15.2	Non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Applications** • Bonding of plastic, foam and PVC



• For bonding interior materials  
• Double-coated adhesive tape TW-Y01

## Double-coated adhesive tape for temporary fixing when sewing leather No.501K

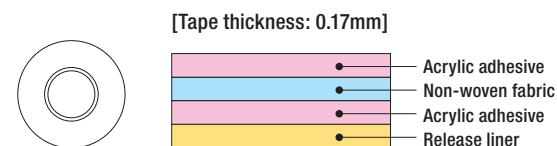


### For temporary fixing of leather products

No. 501K double-coated adhesive tape consists of flexible non-woven fabric impregnated with pressure-sensitive adhesive. The tape adheres well to rough surfaces like cloth and synthetic leather as well as metal and plastic.

- Features**
- Superior initial adhesion
  - Strong peel adhesion

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

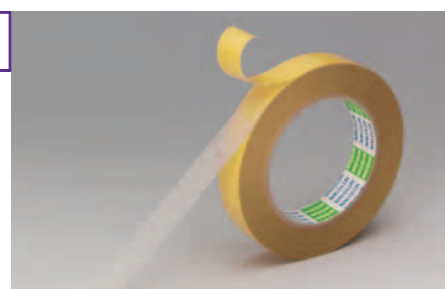
Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.501K	0.17	10.7	Non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

- Applications**
- Temporary fixing of margins of bags
  - Temporary fixing of handicrafts
  - Other general bonding



## Double-coated adhesive tape for fixing printing plates No.511/No.513

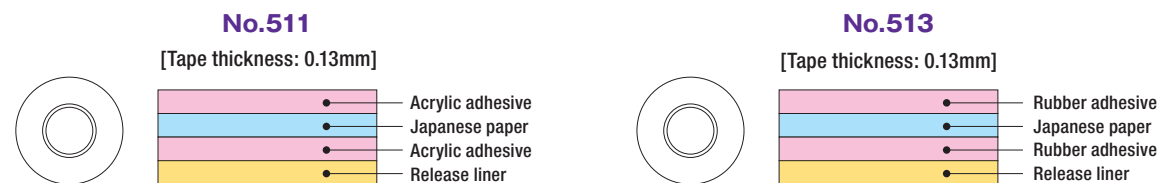


### For fixing printing plates

No. 511 and No. 513 double-coated adhesive tapes for fixing plastic printing plates are strong and highly tear-resistant.

- Features**
- Tape is strong and tear-resistant.
  - Tape doesn't tear easily when peeled.

### Structure



\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.511	0.13	8.7	Japanese paper
No.513	0.13	8.3	Japanese paper

\*Measured by peeling in a 180° direction at a speed of 250mm/min at 23°C with 0.025mm PET lining.

- Applications**
- Fixing of resin printing plates (No. 511)
  - Fixing of metal/rubber printing plates (No. 513)

## Popular general purpose double-coated adhesive tape No.500

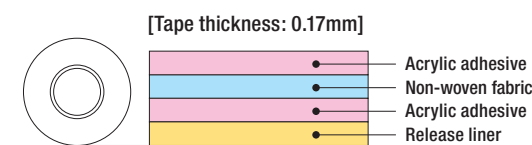


### General purpose double-coated adhesive tape

Nitto's most popular double-coated adhesive tape for multiple use consists of flexible non-woven fabric impregnated with pressure-sensitive adhesive. Superior adhesive strength makes the tape ideal for general bonding.

- Features**
- Superior adhesive strength
  - Has repulsion-resistance superior to that of other double-coated adhesive tapes
  - Widely used as an industrial double-coated adhesive tape, this reliable tape is one of our most popular products.
  - The tape is UL969 certified (File No. PGGU2. MH13557).

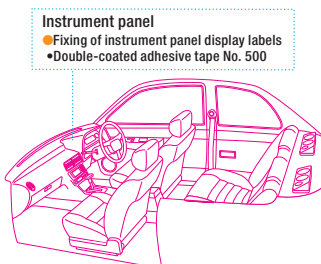
### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

- Bonding of punched metal nameplates
- Fixing of plastic display panel
- Fixing of nameplates for automobile instrument panels and air-conditioners



### Properties

■ 180° peeling force according to type of substrate

Thickness (mm)	180° peeling force (N/20mm)			Carrier
	Stainless	Aluminum	ABS	
0.17	12.5	12.7	13.0	Non-woven Fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

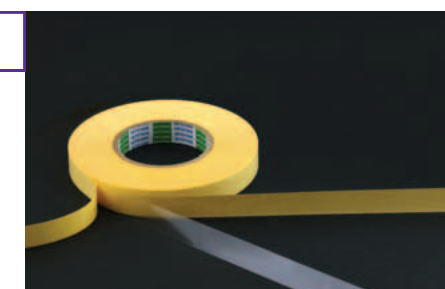
■ 180° peeling force according to temperature (using stainless steel)

Temperature (°C)	180° peeling force (N/20mm)
0°C	14.8
23°C	12.5
40°C	10.4
80°C	8.2

(Unit: N/20mm)

\*Measured by peeling in a 180° direction at a speed of 300mm/min at the above temperatures with 0.025mm PET lining.  
\*Tape pressure application and measurement at temperature given in the table above.

## Double-coated adhesive tape with excellent processability No.532



### General purpose double-coated adhesive tape

No. 532 double-coated adhesive tape consists of PET film coated on both sides with adhesive. This type has release liners on both sides to facilitate punching and is ideal for applying nameplates, scales or metal parts.

- Features**
- Exhibits stable adhesive strength for various materials including metal and plastic
  - Can be used in a wide range of temperatures
  - Superior repulsion resistance

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

- Application of nameplates, wiring boards, etc.
- Temporary fixing of small parts
- Fixing of printing plates

### Properties

Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
0.06/0.08/0.125	6.3 (Thickness: 0.08mm)	PET film

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.



## Double-coated adhesive tape for holding

No.575



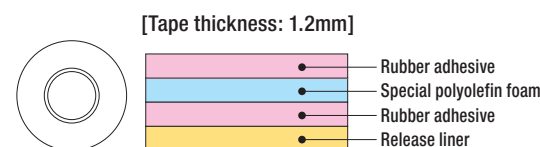
### Tapes with foam carrier

No. 575 double-coated adhesive tape consists of a flexible foam carrier coated on both sides with a strong pressure-sensitive adhesive. The tape provides excellent holding capability.

### Features

- Uses foam carrier for tight adherence to substrates
- Foam carrier contributes to superior holding power.
- Used for fixing household hangers and mounting various types of hanger board

### Structure



\*Tape thickness excludes thickness of release liner.

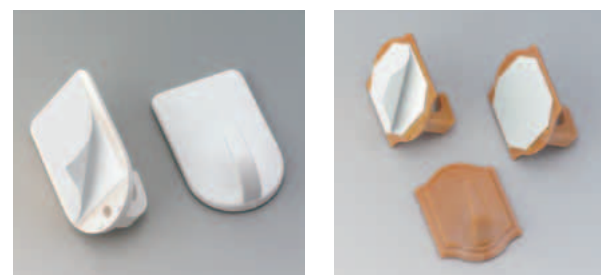
### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.575	1.2	22.7	Special polyolefin foam

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

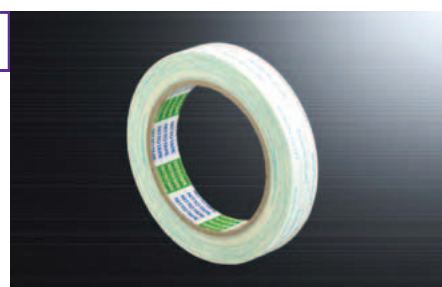
### Applications

- Fixing of household hangers and mounting hanger board
- Mounting small electric parts
- Fixing of decorative panels and moldings



## Multipurpose double-coated adhesive tape

No.5015



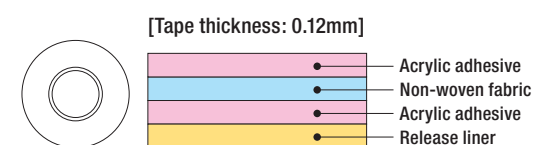
### General purpose double-coated adhesive tape

No. 5015 double-coated adhesive tape consists of flexible non-woven fabric impregnated with pressure-sensitive adhesive. The tape adheres strongly to metal, plastic, etc., and has particularly good repulsion-resistance characteristics.

### Features

- Exhibits stable adhesive strength for various materials including metal and plastic
- Can be used in a wide range of temperatures
- Superior repulsion resistance
- The tape is UL969 certified (File No. PGGU2. MH13557).

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

- Fixing of items continuously supporting slight force such as nameplates or foam

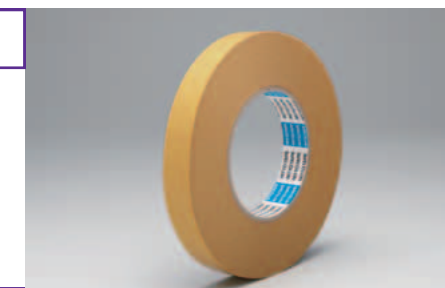
### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.5015	0.12	16.0	Non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Double-coated adhesive tape with excellent processability

No.501F



### General purpose double-coated adhesive tape

No. 501F double-coated adhesive tape consists of flexible non-woven fabric impregnated with acrylic adhesive. The tape exhibits moderate adhesiveness for excellent workability.

### Features

- Provides a wide range of use because adhesive strength does not depend heavily on substrate
- Exhibits moderate adhesiveness for excellent workability

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

- General desk work
- Splicing paper and film
- Fixing of lightweight plates

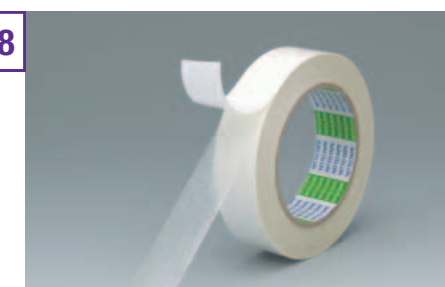
### Properties

Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
0.16	7.2	Non-woven fabric

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Double-coated adhesive tape with excellent initial adhesion and suitability for adhesion to various components

No.506/No.508



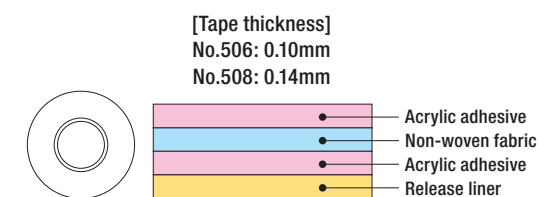
### General purpose double-coated adhesive tape

Double-coated adhesive tape developed for fixing electronic product components and home electric appliances. This tape exhibits excellent adhesion to many different substrates.

### Features

- Excels in the balance between initial adhesion and component fixing performance
- Excels in taping workability at low temperature
- Excels in durability

### Structure



\*Tape thickness excludes thickness of release liner.

### Applications

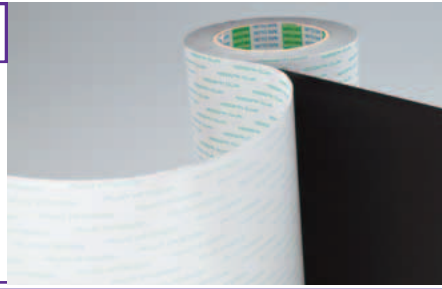
- Fixing of metal and plastic components
- Fixing of nameplates
- Fixing of foams and cushioning materials

### Properties

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.506	0.10	14.0	Non-woven fabric
No.508	0.14	15.0	

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Removable, high-adhesion, black-colored double-coated adhesive tape No.5000N(C)B**



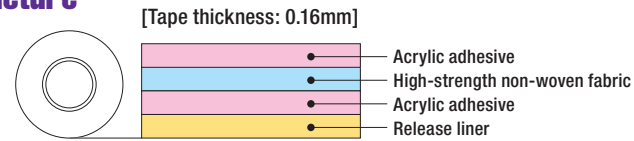
**For a wide variety of black substrates**

This black type is removable because it uses soft, high tensile strength, non-woven fabric.

**Features**

- The adhesive is black.
- Adheres well to substrates that are not easily bondable, such as polystyrene and polypropylene.
- The high tensile strength makes this tape suitable for applications where removal and reapplication is required, such as component recycling.

**Structure**



\*Tape thickness excludes thickness of release liner.

**Applications**

- For bonding metal plates, foams, plastic plates, etc.
- Applications where removal and reapplication is required
- Fixing components of home electrical appliances
- Fixing speaker nets for flat TV sets

**Properties**

Thickness (mm)	180° peeling force (N/20 mm) (For stainless steel)	Carrier
0.16	16.0	High-strength non-woven fabric

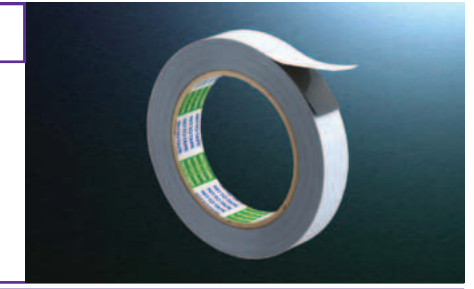
■ Bonding characteristics (180° peeling force according to type of substrate) (Unit: N/20mm)

Substrate	No.5000N(C)B
Aluminum	15.0
PP	14.5
ABS	15.0
Acrylics	15.5
PSt	16.0
PC	16.0
PET	15.0
Glass	14.5
Urethane foam (ester-based)	10.0
Urethane foam (ether-based)	7.0

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

**Double-coated adhesive tape with high durability**

**No.5713**



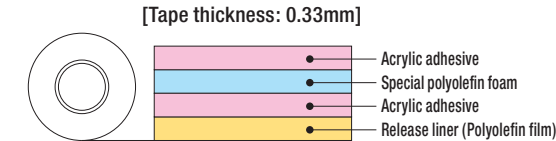
**Tapes with foam carrier**

No. 5713 double-coated adhesive tape consists of a thin layer of polyolefin foam evenly coated on both sides with an acrylic adhesive. Developed for fields requiring durability over an extended period of time, the tape exhibits superior performance for the fixing of plates etc.

**Features**

- Uses a thin layer of flexible foam, so it offers strong adhesiveness to substrates
- Offers superior holding power and stable fixing
- Uses a thin layer of foam for the carrier, so it gives the feeling of being part of the object to which it is applied
- The tape is UL969 certified (File No. PGGU2. MH13557).

**Structure**



\*Tape thickness excludes thickness of release liner.

**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel)	Carrier
No.5713	0.33	9.9	Special polyolefin foam

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

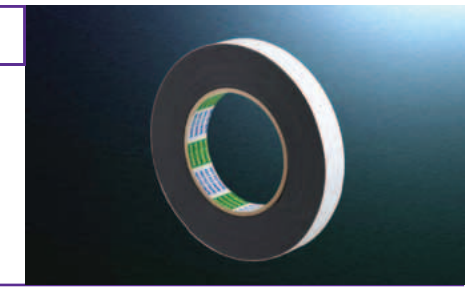
**Applications**

- Fixing of nameplates
- Fixing of automobile emblems
- Seal/packing for precision equipment



**Flexible double-coated adhesive tape with butyl rubber foam carrier**

**No.541**



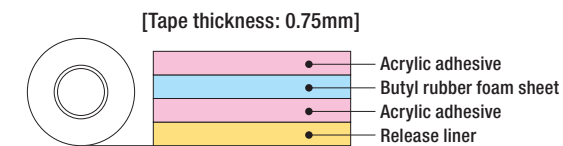
**Tapes with foam carrier**

No. 541 double-coated adhesive tape consists of strong adhesive on a butyl rubber foam carrier.

**Features**

- Offers flexibility and excellent adhesiveness to rough surfaces
- Flexible butyl rubber foam carrier allows superior stress dispersion, making it ideal for bonding and fixing of parts such as panels.

**Structure**



\*Tape thickness excludes thickness of release liner.

**Applications**

- Holding parts of household appliances in place such as display panels and simple hooks

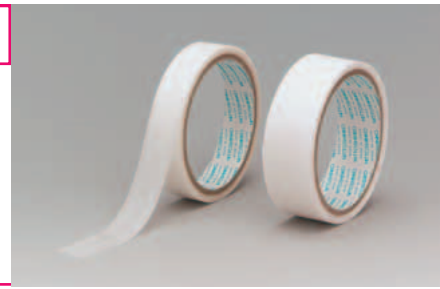
**Properties**

Product No.	Thickness (mm)	180° peeling force (N/20mm) (For stainless steel plate)
No.541	0.75	12.4

\*Measured by peeling in a 180° direction at a speed of 300mm/min at 23°C with 0.025mm PET lining.

## Adhesive sheet for electronic components

**B-EFP11**



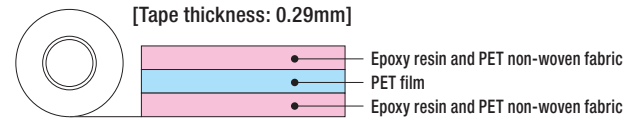
### No separator adhesive sheet

Thermosetting adhesive sheet can be preserved at room temperature to offer superior sealing of different types of materials at high temperatures.

### Features

- Doesn't employ a release liner so it is easy to use and doesn't produce waste
- Heating produces the proper amount of resin flow for sealing properties

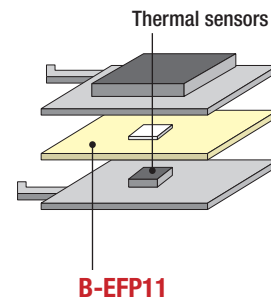
### Structure



### Properties

Product No.	Thickness (mm)	Shear strength/RT (N/cm <sup>2</sup> )	Bonding conditions	
		Measurement value	°C	Time (sec)
B-EFP11	0.29	2,200	150-180	120-60

\*Measured by pulling in a shear direction at a speed of 50mm/min at normal temperature with 2mm nickel-plated brass plate/2mm nickel-plated brass plate.

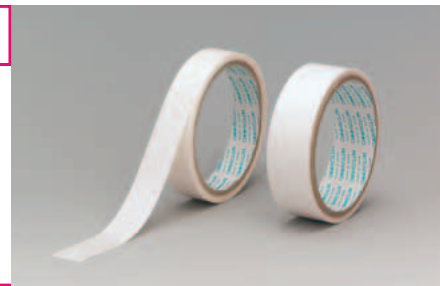


### Applications

- Bonding/encapsulating of thermal fuses

## Adhesive sheet for electronic components

**FB-ML80**



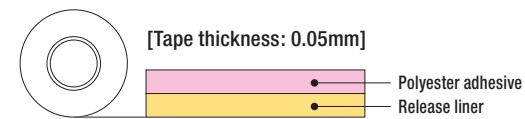
### For a wide variety of substrates

Strong thermoplastic adhesive sheet is capable of instantaneous thermal bonding and can be preserved at room temperature.

### Features

- Enables instantaneous bonding in seconds
- Contains no halogen
- Can be preserved at room temperature for an extended period of time (6 months)

### Structure



\*Tape thickness excludes thickness of release liner.

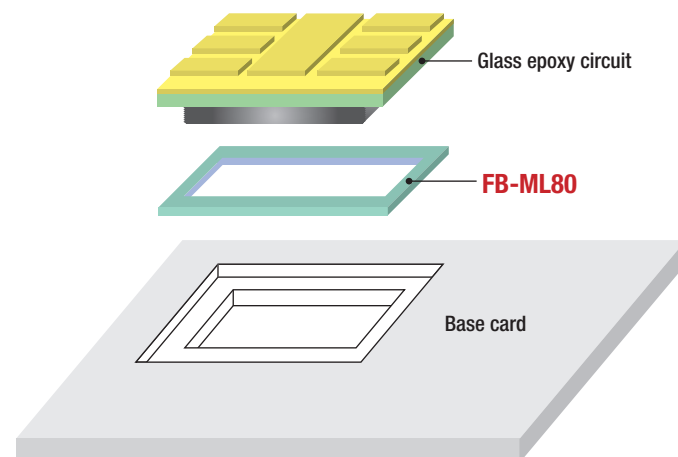
### Properties

Product No.	Thickness (mm)	Shear strength/RT (N/cm <sup>2</sup> )	Bonding conditions	
		Measurement value	°C	Time (sec)
FB-ML80	0.05	1,600	120-	2-

\*Measured by pulling in a shear direction at a speed of 50mm/min at normal temperature with 0.5mm glass-cloth substrate epoxy plate/2mm PVC

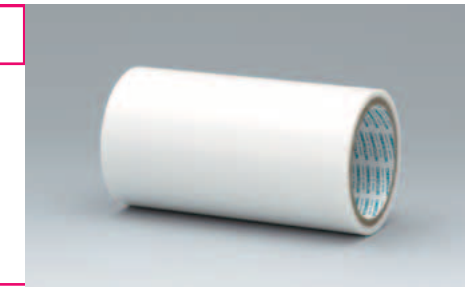
### Applications

- Bonding of IC card terminals to base card



## Adhesive sheet for fixing of parts

**FB-ML4**



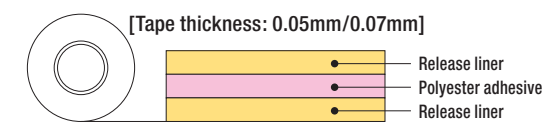
### For strong bonding

Strong thermoplastic adhesive sheet capable of instantaneous thermal bonding to various substrates such as metal or resin. The sheet can be preserved at room temperature and is resistant to heat and humidity.

### Features

- Enables instantaneous bonding in seconds, and adhesion does not deteriorate in hot and humid conditions.
- ML4 can adhere to limited area due to its high adhesive strength.
- Because the tape is tackless and does not adhere to dust, it offers a great outward appearance.

### Structure

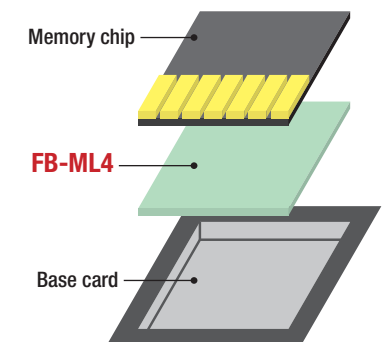


\*Tape thickness excludes thickness of release liner.

### Properties

Product No.	Thickness (mm)	Adhesive strength		Bonding conditions	
		Shear strength (N/cm <sup>2</sup> )	180° peeling force (N/10mm)	°C	Time (sec)
FB-ML4	0.05/0.07	1,600	20	130-	5-

1 Measured by pulling in a shear direction at a speed of 50mm/min at normal temperature with 0.5mm glass-cloth substrate epoxy plate/2mm PVC  
2 Measured by peeling in a 180° direction at a speed of 50mm/min at normal temperature with 2mm PVC/0.05mm PI lining



### Applications

- Bonding of chips and base cards of small memory cards

- The contents of this catalogue are effective as of August 2020.
- Certain products listed in this catalogue may not be available in some countries. Please contact us via our website for product availability.
- The information contained in this catalogue is subject to change without prior notice. This can be for, but not limited to, product improvement or other reasons at our own discretion.
- The data and figures contained in this material are NOT guaranteed values but typical values.
- The application examples of products stated in this catalogue are for illustrative purposes only and NOT guaranteed. Please read all instructions completely before use.
- All text and images in this catalogue are copyrights of Nitto Denko Corporation.
- All logos, product names, and other related information used in this catalogue are the brands or registered trademarks of Nitto Denko Corporation and its affiliates in Japan and/or other countries.
- If you wish to use the content of this catalogue for purposes other than the original intent, please consult us in advance. Any unauthorized use, copying or reprinting of the contents or part thereof in this catalogue without obtaining our prior written consent is strictly prohibited.