

BUILDING & CONSTRUCTION





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No. 525

No. 652V

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Flashing tape

ZENTEN TAPE No. 6924

13 Low-VOC general-purpose double-coated adhesive tape

No. 5015EF

Low-VOC general-purpose double-coated adhesive tape

Fixing and Temporary Fixing Products

High bonding acrylic foam double-coated tape

No. 510/No. 512/No. 515/EW-514/

HYPERJOINT® H9000 Series/

H8000 Series/H7000 Series

Low-VOC double-coated adhesive tape

EW-514D/OW-5016

No. 523

Double-coated adhesive tape for temporary fixing of building materials

PF-370

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Double-coated adhesive tape for plastics and foams **TW-Y01**

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Fluoroplastic adhesive tape
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No. 903UL

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Surface protective material for draining plate $\ensuremath{\textbf{SPV}^{\circledcirc}\text{-}\textbf{CB-800K}}$

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Surface protective material for stainless steel and aluminum plates

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age Soundproofing

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[outdoor use]
Indicator tape
Line Tape E Series

24 Indicator tape
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Page Anti-corrosion Products

Petrolatum anti-corrosion tape
No. 59 Series

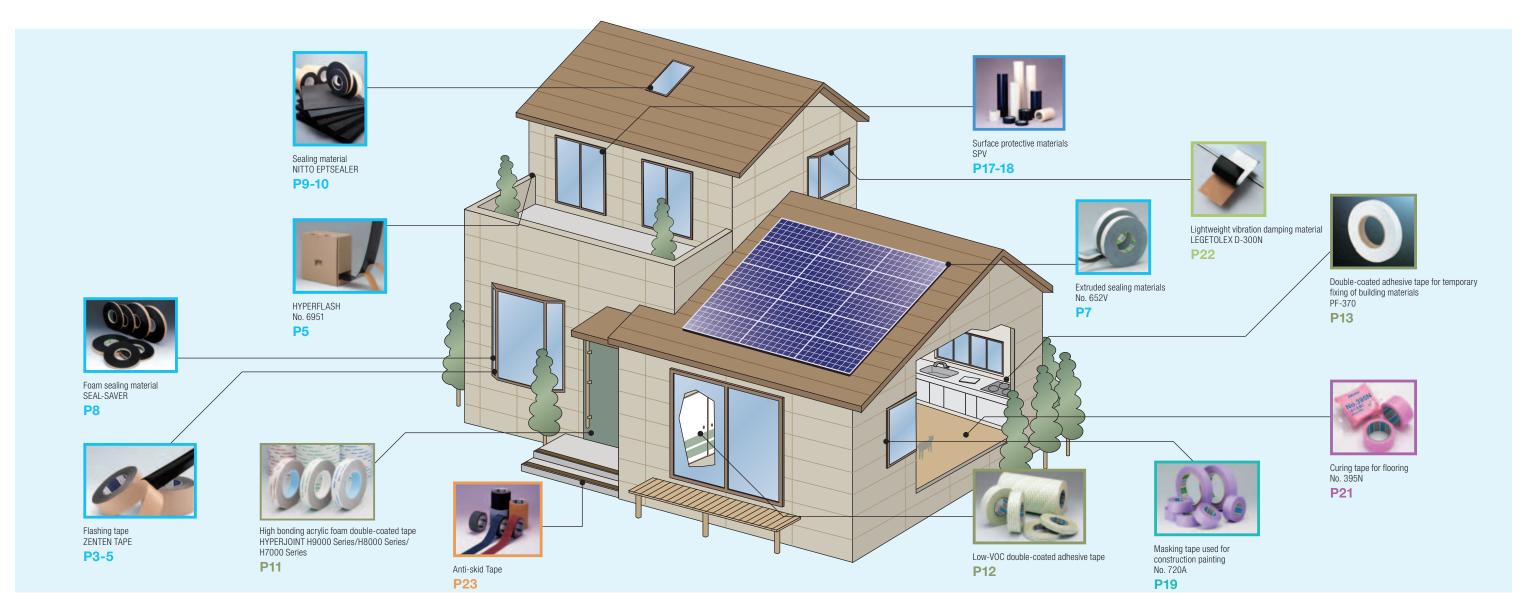
Outdoor anti-corrosion tape
NITOHULLMAC XG Series

PVC anti-corrosion tape **No. 51**

PE anti-corrosion tape **No. 55**

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Flashing tape

ZENTEN TAPE No. 6931 (single-coated strong-adhesion type)

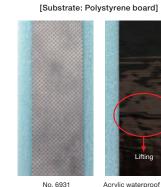
Features

- Stronger adhesion than conventional products at low temperature.
- Minimal stickiness even in summer, and good workability.
- Bonds firmly to uneven surfaces.
- Offers superior properties of durability and waterproof.

[Substrate: Softwood plywood]









No. 6931

Flashing tape

ZENTEN TAPE No. 690 (double-coated adhesion type for DuPont™ Tyvek® HomeWrap®)



Suitable for fixing DuPontTM Tyvek[®] HomeWrap[®]

Application examples





DuPont™ and Tyvek® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company in the U.S.

Flashing tape

ZENTEN TAPE No. 6922 (double-coated strong-adhesion type)

Features

- Offers stable adhesiveness at each temperature.
- Excellent adhesiveness at low temperatures.
- Bonds firmly to uneven surfaces.
- Offers superior properties of durability and waterproof.

Flashing tape

ZENTEN TAPE No. 6924 (double-coated adhesion type)

Features

- Stronger adhesion than conventional products at low temperature.
- Minimal stickiness even in summer, and good workability.
- Bonds firmly to uneven surfaces.
- Offers superior properties of durability and waterproof.

Properties/Adhesive strength

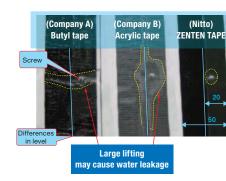
	Item		Condition				
	Tensile strength (N/cm)		4	43		Room temperature	
	Elongation (%)		(30		(23°C)	
No. 6931	Substrate/Temperature	-10°C	0°C	23°C	40°C	Unit	
	Aluminum plate	27	30	18	13		
	Softwood plywood	8	9	17	16	N/25mm	
	Polystyrene board	3	6	7	6		
	Item		Meası	urement		Condition	
	Tensile strength (N/cm)		2	24		Room temperature	
	Elongation (%)	10				(23°C)	
No.690	Substrate/Temperature	-10°C	0°C	23°C	40°C	Unit	
	Aluminum plate	34	33	25	14		
	Softwood plywood	8	13	19	15	N/25mm	
	Tyvek® HomeWrap®	5	9	20	15		
	Item		Meası	Condition			
	Tensile strength (N/cm)		Room temperature				
	Elongation (%)		2	(23°C)			
No. 6922	Substrate/Temperature	-10°C	0°C	23°C	40°C	Unit	
	Aluminum plate	34	33	25	14		
	Softwood plywood	8	13	19	15	N/25mm	
	Moisture permeable waterproof sheet in nonwoven fabric	7	10	10	7		
	Item		Meası	urement		Condition	
	Tensile strength (N/cm)			18		Room temperature	
	Elongation (%)			18		(23°C)	
No.6924	Substrate/Temperature	-10°C	0°C	23°C	40°C	Unit	
	Aluminum plate	30	32	24	14		
	Softwood plywood	8	13	18	15	N/25mm	
	Moisture permeable waterproof sheet in nonwoven fablic	5	8	8	7	IN/25mm	

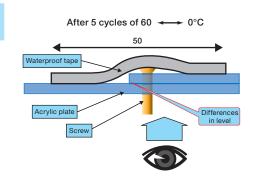
NYG testing specification: over 3N/25mm

The above values are sample observed values, not the guaranteed performance

General properties

Absorbs differences in level





Non-swelling properties

ZENTEN TAPE No. 690 uses non-swelling butyl rubber adhesive. Prevents wrinkles from forming on Tyvek® HomeWrap®.





Competitor products

Flashing tape

Hyperflash No. 6951

Features

- Can be applied to three-dimensional shapes.
- Can be applied without use of supplementary materials.
 Can be attached three dimensionally, thus enhancing waterproofing reliability.

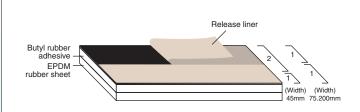
Properties

Item	Unit	0°C	23°C	40°C
Tensile strength (MD)	N/25mm	25	8	4
Elongation (MD)	%	900	1100	1330
100% modulus-initial (MD)	N/25mm	8	4	4
100% modulus-after 5min (MD)	N/25mm	2.9	1.3	0.7

Adhesive strength

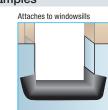
Substrate	Unit	0°C	23°C	40°C
Stainless steel plate		32	9	6
Softwood plywood	N/25mm	10	13	6
Moisture permeable waterproof sheet		22	12	6

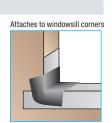
Split liner structure



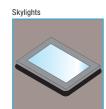
Application examples



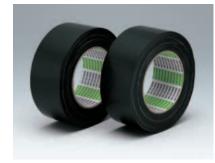








Airtight tape



ZENTEN TAPE EX-2

Features

- Tears easily; facilitates application.
 No release paper; facilitates handling during application.
 Excellent airtightness and durability.

Adhesive strength

Substrate	Unit	Measurement	Condition	
Stainless steel plate	N/25mm	33	De am tamanaratura (000C)	
Plywood	IN/25IIIII	19	Room temperature (23°C)	

NYG testing specification: over 3N/25mm

Flashing tape



ZENTEN TAPE LA

Features

- Outstanding adhesiveness to rough surfaces.
- Offers excellent adhesiveness in low temperature environments.
- Low gas permeability.
 Excellent water resistance.

Properties

opo			
Substrate		Unit	Measurement
0°C			21
Adhesive strength	23°C	N/25mm	26
	40°C		19
Moisture permeability		g/m²⋅24h	0.09
Resistance to moisture permeation		m²·s·pa/ng	6400 x 10 ⁻³

ZENTEN Series Product Lineup

Product type	Product No.	Thickness (mm)	Width (mm)	Length (m)	Qty/cs (rls)	Structure	Application	
Waterproof airtight tape	No. 6931	0.4	50 75			Backing (nonwoven fabric) Butyl rubber adhesive Release liner		
(single-coated strong-adhesion type)	LA	0.5	100	20	15 10	Reinforced film with aluminum foil Butyl rubber adhesive Release liner	Excellent waterproof properties for window	
	No. 690	0.42				Butyl rubber adhesive Plastic film Butyl rubber adhesive (expansion control type) Release liner	sashes Excellent for fixing waterproof sheets and offers superior waterproofing	
Waterproof airtight tape (double-coated adhesion type)	No. 6922	0.5	50 75 100	20	20 15 10	15	Butyl rubber adhesive ————————————————————————————————————	airproofing for board joints
	No. 6924	0.4				Butyl rubber adhesive Release liner		
Airtight tape (single-coated adhesion type)	EX-2	0.38	50 75 100	20	20 16 12	Plastic film (fabric) ————————————————————————————————————	Excellent for making indoor spaces airtight	
Waterproof tape (deformable rubber substrate type)	No. 6951*1	1.3	45 75 200	5	12 8 4	Back surface treatment EPDM rubber sheet Butyl rubber adhesive Release liner	Excellent for water- proofing windowsill corner	

^{*1} Split release liner type available for each size. For 200mm, split liner type is available by special order only.

* Stainless plate as the substrate.

Double-coated adhesive tape

No. 525



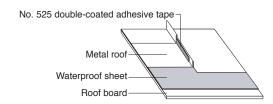
Features

- Thickly coated with special synthetic rubber adhesive; offers excellent adhesiveness and water resistance.
- Excellent weather resistance allows for long-lasting water resistance.
- Properties are not affected by weather changes

Standard sizes

Thickness (mm)	Width (mm)	Length (m)
0.5	30/50	45
1.0	30/50	15

Application examples



Extruded sealing materials

No. 652V



- Superior plasticity and water-tightness. Adheres well to coarse surfaces too.
- Good adhesiveness. Easily adheres to various surfaces such as cement, mortar, metal, and wood.
- Excellent resistance to weather and chemicals.

Application examples



 Waterproofing of the metal cradle for photovoltaic panels.

Structure

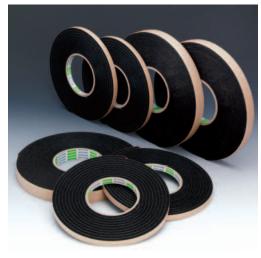
EPDM sealing material Release liner

Standard sizes

Thickness (mm)	Width (mm)	Length (m)	Color
1.0		20	
2.0	5-440	15	Gray
3.0		10	

Foam sealing material

SEAL-SAVER



Product Variations

Features

expansion material.

Thickness Width Length Color Product No. Structure SA-612 Special waterproof layer -FPDM rubber foam 3/5/8/10 Black (High water pressure resistant Acrylic adhesive 2 900 PFT release liner -Special waterproof layer -SA-212 EPDM rubber foam closed cell structure) 5/8/10 Black (Standard type) Acrylic adhesive

A special waterproof layer combined with our EPDM rubber foam, which displays superior resistance to heat and chemicals (acids and alkalis). Waterproofing

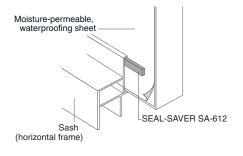
Slight degree of compression makes for a highly effective water barrier with a thin

*Made-to-order manufacturing according to thickness.

capability is improved after adhesion.

Flexibility and low rebound make assembly work easier.

Application examples



Comparison of waterproofing mechanism

■ Conventional waterproofing mechanism High pressure is required to secure watertightness.



Waterproofing is achieved as the foam resilience prevents penetration of water through the interface Over a long duration of use, the foam's pressure weakens and the foam relaxes, resulting in a gradual loss of resilience

As a result, water penetrates the interface

■ Waterproofing mechanism of SEAL-SAVER

Even under low pressure, waterproofing is achieved.



Special waterproof layer on the surface is affixed to the interface after assembly

After adhering, waterproofing capability improves

Waterproofing capability is well

Adhesive Rubber foam Special waterproof layer

Properties

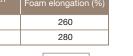
Properties

			Conforms to JIS K 6767
Product No.	Density (g/cm ³)	Tensile strength (N/cm²)	Foam elongation (%)
SA-612	0.11	35.3	260
SA-212	0.08	6.0	280

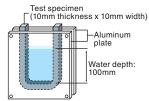
■ Compression ratio and waterproofing performance

Compression ratio (%)	SA-612	SA-212
10	0	0
30	0	0
50	0	0
70	0	0
90	0	0

ONo water leakage after 30 min.



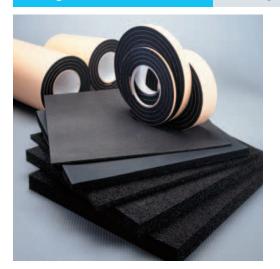
Test method



Note: U-shaped 10mm wide test specimens were punched out and

Sealing material

NITTO EPTSEALER

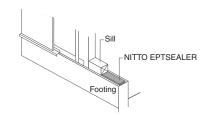


Features

- The main constituent is EPDM rubber foam, which boasts superior cold and heat resistance, weatherability and chemical resistance (to acids and alkalis) compared with general purpose rubbers.
- Cell structure offers choice of closed cells and semi-closed cells according to the user's needs.

Application examples

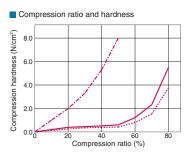




Standard sizes

	1				
Product No.	Color	Foam Thickness (mm) (foam only)	Foam Thickness (mm) (with double-coated tape)	Width (mm)	Length (m)
No.6800		2-15	2-15		
No.685		5-35	3-40		
EE-1000	Dlask	5-25	3-25	1000	2
EC-100	Black	5-20	3-25		
EC-200		5-20	3-25		
EH-2200		3-20	3-20	900	

Properties



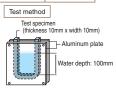
Each 10cm x 10cm test specimen was compressed at the rate of 10mm/min. until the preset thickness was reached. The compression load was measured after a 10 second delay.

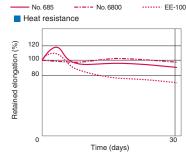
Watertightness

○ No water leakage after 30 min.
 △ Water leakage within 30 min.
 ✓ Water leakage within 10 min.

	× water leakage within 10 min.					
Item	٧	Watertightness				
Compression ratio (%)	No. 6800	No. 685	EE-1000			
50	0	×	×			
60	0	Δ	×			
70	0	0	Δ			
80	0	0	0			

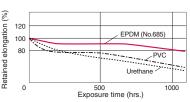
Note: U-shaped 10mm wide test specimens were punched out and placed between acrylic and aluminum plates for compression to a preset load. Then the test specimens were filled with water to the depth of 100mm, and checked for leakage.



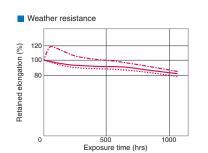


Note: Test specimens prepared using #1 dumbbell die were exposed to an 80°C condition. At the end of each time interval, the test specimens were stretched at the rate of 500mm/min., and the maximum elongation before rupture was measured. Retained elongation was calculated as a percentage of the brand new specimen's elongation.

Comparison of weather resistance



Note: Each test specimen was placed in a sunshine carbon weather meter and taken out after a set time to measure the elongation by stretching at the rate of 500mm/min. Retained elongation was calculated as a percentage of the new specimen's elongation.



Note: Each test specimen was placed in a sunshine carbon weather meter and taken out after a set time to measure the elongation by stretching at the rate of 500mm/min. Retained elongation was calculated as a percentage of the new specimen's elongation.

■ Good balance of general properties



Product Variations

Structure	Foam type	Color	Product No.	Adhesive	Carrier of adhesive			
Closed cell structure			No. 6800	Foan	n only			
0.000 00.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01.00 01			No. 681		Baseless			
000000	No. 6800 Series		No. 6801	Acrylic adhesive	Nonwoven fabric			
			No. 6801P		Film			
and the same of th			EM-142	Rubber adhesive	Cotton fabric base			
Semi-closed cell			No. 685	Foan	n only			
structure	No COE Conice		No. 686	A and the address the	Nonwoven fabric			
	No. 685 Series		No. 686P	Acrylic adhesive	Film			
Before compression			No. 687	Rubber adhesive	Cotton fabric base			
200			EE-1000	Foan	n only			
	EE-1000 Series	Black	EE-1010	Acrylic adhesive	Nonwoven fabric			
			EE-1010P		Film			
200			EE-1040	Rubber adhesive	Cotton fabric base			
			EC-100	Foam only *UL-94 HF-1 ce (certified thickn	rtified foam ess follows the UL Yellow Card)			
	F0 400 0 :	FO 100 0	FO 400 Oi	F0 400 0		EC-110		Nonwoven fabric
After compression	EC-100 Series		EC-111P	Acrylic adhesive	Film			
Compression			EC-140	Rubber adhesive	Cotton fabric base			
- 255			EC-200	Foam only *UL-94 HBF cer (certified thickn	tified foam ess follows the UL Yellow Card)			
	EC 200 Sories		EC-210		Nonwoven fabric			
	EC-200 Series		EC-210P	Acrylic adhesive	Film			
			EC-240	Rubber adhesive	Cotton fabric base			
	EU 0000 Carrias		EH-2200	Foam only *UL-94 HBF cer (certified thickr	tified foam less follows the UL Yellow Card)			
	EH-2200 Series		EH-2210	Acrylic adhesive	Nonwoven fabric			

Fixing and Temporary Fixing Products

High bonding acrylic foam

HYPERJOINT® H9000 Series/H8000 Series/H7000 Series



Features

Excellent adhesion to various substrates and high heat/water resistance.

1.2

- The highly conformable foam provides excellent adhesion to the most challenging
- The H9000 series follows ragged surface or distortion of substrates with its highly conformable foam backing and can obtain the maximum bonding area.
- The H8000 series shows the smallest amount of distortion when external force is applied. Excellent shear adhesion strength.
- The H7000 series product features high backing strength and retention capacity.
- HYPERJOINT conforms to JIS Z 1541 category 1 class 1.

Standard sizes

	H9004	0.4			
Extra Soft	H9008	0.8			
	H9012	1.2			
	H8004	0.4			
Soft	H8008	0.8	5-1150	20	
	H8012	1.2			
	H7004	0.4			
Regular	H7008	0.8			

H7012

Application examples

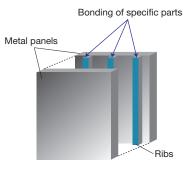
Fixing ribs to metal panels

Structure

Acrylic adhesive Acrylic foam

Acrylic adhesive

Release liner



Fixing kitchen's decoration panel



Fixing LED modules for signs



55.0 60.0

43.0

55.0

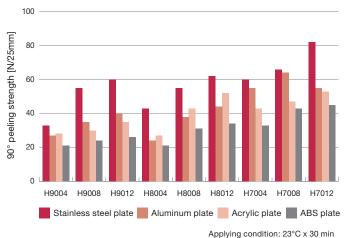
62.0 60.0

66.0

82.0

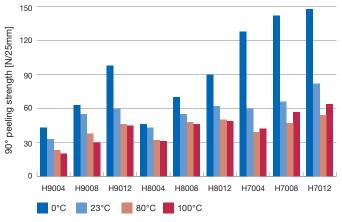
Properties

■ Superior adhesion to various substrates 90° peeling strength -by substrate-



Peeling speed: 300 mm/ min

■ Superior adhesion from low temperatures to high temperatures 90° peeling strength -by temperature-



Substrate: Stainless steel plate Applying condition: each temperature x 30 min Peeling speed: 300 mm/ min

Low-VOC double-coated

No. 510/No. 512/No. 515/EW-514/EW-514D/OW-5016



Features

- Low-VOC double-coated adhesive tapes conform to the Japanese Ministry of Health, Labour and Welfare's guidelines for indoor densities of VOCs*1 (13 substances).
- Uses no organic solvents (toluene, xylene).
- Adheres well to interior materials.
- Works exceptionally well in adhering to various types of materials.
- Features outstanding processability and workability.
- *1 Volatile Organic Compounds

Application examples

- Fixing of metal plates
- Fixing of plastic plates
- Fixing and adhering of foam materials (No. 510)

Standard sizes

Product No.	Thickness (mm)	Width (mm)	Length (m)
No. 510 (high-holding power type)	0.15		
No. 512 (initial adhesive strength type)	0.15		20/50
No. 515 (high-holding power/thick type)	0.25	10/15/20/	
EW-514 (curve adhesive strength type)	0.14	25/50/400	
EW-514D (curve adhesive strength type)	0.28		50
OW-5016 (Oil surface adhesive strength type)	0.16		

Properties

Structure

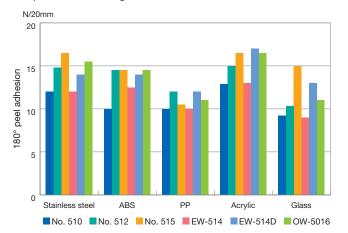
Solvent-free acrylic adhesive

Solvent-free acrylic adhesive

Measured substance	MHLW gudelines [µg/m³]	No. 510	No. 512	No. 515	EW-514	EW-514D	OW-5016
Formaldehyde	100	ND	ND	ND	ND	ND	ND
Acetaldehyde	48	ND	ND	ND	ND	ND	ND
Toluene	260	ND	ND	ND	ND	ND	ND
(o-m-p-) xylene	870	ND	ND	ND	ND	ND	ND
Ethylbenzene	3800	ND	ND	ND	ND	ND	ND
Styrene	220	ND	ND	ND	ND	ND	ND
Tetradecan	330	ND	ND	ND	ND	ND	ND
Di (2- ethylhexyl) phthalate	120	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	220	ND	ND	ND	ND	ND	ND
Diazinon	0.29	ND	ND	ND	ND	ND	ND
Fenobucarb	33	ND	ND	ND	ND	ND	ND
Paradichlorobenzene	240	ND	ND	ND	ND	ND	ND
Cholorpyrifos	1	ND	ND	ND	ND	ND	ND

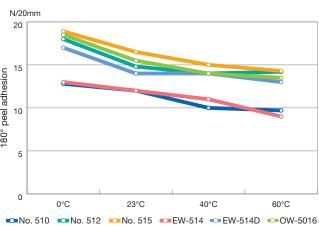
ND = not detected (below detectible limits) <analysis conditions> JIS A1901 Conforms to small chamber method.

■ Excellent adherence to different substrates. 180° peel adhesion testing



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

■ Maintains superior adhesive strength for temperatures ranging from low to high 180° peel adhesion testing



*Measured by peeling in a 180° direction at a speed of 300mm/min with polyester film 0.025mm lining

Fixing and Temporary Fixing Products

Low-VOC general-purpose double-coated adhesive tape

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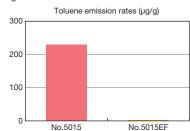
No.5015EF

Features

- Reduces the amount of VOC emitted
- Excellent adhesion to various materials including metal and plastic
- Can be used in a wide range of temperatures

Application examples

- Fixing of building and construction materials
- The reduction of the amount of the VOC (Volatile Organic Compound) from the tape because the organic solvent toluene is not used.



Low-VOC general-purpose double-coated adhesive tape



No. 523

Features

- Superior adhesion to uneven surfaces.
- Offers superior cushioning characteristics.
- No adhesive leakage; applies cleanly.

Application examples

Fixing of carpet



Double-coated adhesive tape for temporary fixing of building materials



PF-370

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

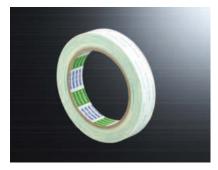
Application examples

Temporary fixing of household interior finishing materials





Multi-purpose double-coated adhesive tape



No. 5015

Features

- Offers stable adhesive strength to various materials such as metals and plastics.
- Can be used in a wide range of temperatures.
- Superior repulsion resistance.
- UL969 certified (File No.PGGU2. MH13557)

Application examples

• Fixing of items continuously supporting slight force such as nameplates and foams

Double-coated adhesive tape for plastics and foams

TW-Y01



Features

- Easily applied, not only to metal but also to rough surfaces such as foams and plastics.
- Excellent repulsion resistance

Application examples

• For bonding materials such as plastics, foams, and vinyl chlorides.

Double-coated adhesive tape product lineup

			Size			
Product type	Product No.	Backing	Tape thickness*1 (mm)	Applicable width (mm)	180° peel adhesion (N/20mm)	Application examples
	H9004	Acrylic foam	0.4	5-1,150	33.0* ²	
	H9008	Acrylic foam	0.8	5-1,150	55.0* ²	
	H9012	Acrylic foam	1.2	5-1,150	60.0* ²	
	H8004	Acrylic foam	0.4	5-1,150	43.0* ²	
High bonding acrylic foam double- coated adhesive tape	H8008	Acrylic foam	0.8	5-1,150	55.0* ²	Fixing of fire door frames Fixing of various types of metal components
odated adriestive tape	H8012	Acrylic foam	1.2	5-1,150	62.0*2	Trixing or various types of metal components
	H7004	Acrylic foam	0.4	5-1,150	60.0* ²	
	H7008	Acrylic foam	0.8	5-1,150	66.0* ²	
	H7012	Acrylic foam	1.2	5-1,150	82.0*2	
	No.510	Nonwoven fabric	0.15	3-1,200	12	
	No.512	Nonwoven fabric	0.15	3-1,200	14.8	
Low-VOC double-coated adhesive tape	No.515	Nonwoven fabric	0.25	3-1,200	16.5	For general purpose
	EW-514	Nonwoven fabric	0.14	3-1,200	12	Fixing of foam, plastic plates, interior joinery subsidiary materials and metal
	EW-514D	Nonwoven fabric	0.28	10-1,200	14.0	nameplates
	OW-5016	Nonwoven fabric	0.16	3-1,000	15.5	
	No.5015EF	Nonwoven fabric	0.12	3-1,200	14.0	
Low-VOC general-purpose double- coated adhesive tape	No. 523	Fabric	0.5	25,30,40,50	-	Fixing of carpet
	No.500	Nonwoven fabric	0.17	3-1,200	12.5	Bonding punched metal nameplates
General-purpose nonwoven fabric	No.507	Nonwoven fabric	0.3	3-1,200	10.4	Bonding of foam, adhesion to uneven surfaces
base double-coated adhesive tape	No. 5000NS*3	Nonwoven fabric	0.16	3-1,200	16	Adhesion of metal sheets and plastic sheets
Double-coated adhesive tape for temporary fixing of building materials	PF-370	Special polyurethane foam	1.2	3-960	12.5	Temporary fixing of household interior finishing materials
Multi-purpose double-coated adhesive tape	No. 5015	Nonwoven fabric	0.12	3-1,200	16	Fixing of items such as metal plates and foams
Double-coated adhesive tape for plastics and foams	TW-Y01	Nonwoven fabric	0.17	3-1,050	15.2	For bonding materials such as plastics and foams
Double-coated adhesive tape for	No. 541	Butyl rubber foam	0.75	3-1,050	12.4	Fixing of various types of building materials
fixing of various types of building materials and nameplates	No. 575	Rigid polyethylene foam	1.2	5-940	22.7	and nameplates
Double-coated adhesive tape for fixing of rubber materials	VR-5321	Polyester film	0.15	3-1,200	Side 1: 20.4, Side 2: 11.8	Temporary fixing of vulcanized rubber packingn materials

^{*1:} Tape thickness is excluding release liner. *2: N/25mm, Peeling angle=90° *3: No. 5000NS is atrong adhesion and re-peeling.

Piping Products

Vinyl adhesive tape for piping



No. 21 (TOKUHABA)

Features

- Suitable for protection of pipes.
- Easy unwinding and superior workability.
 * Uses no materials that contain such heavy metals as lead.

Standard sizes

Thickness (mm)	Width (mm)	Length (m)	Color (9 colors)
0.2	38/50	10/20	Clear, red, blue, green, yellow, white, black, gray, ivory

^{*} In addition to these products, many other types of double-coated adhesive tapes are available.

Fluoroplastic Products

Fluoroplastic adhesive tape

NITOFLON® Adhesive Tape No. 903UL

Application examples

- Heat-resistant masking
- Heat-resistant electrical insulation

Product No.	Thickness (mm)	Width (mm)	Length (m)
No.903UL	0.08-0.13	13/15/19/20/25/30/38/40/50/75/80/ 100/150/200/250/300/350/400/450	10

Structure	
_	Single surface treated PTFE film
_	Silicone adhesive

Properties

Product No.	Thickness (mm)	180° peel adhesion (N/19mm)	Tensile strength (N/19mm)
No.903UL	0.08	5.6	55
NO.9030L	0.13	7.1	93

Fluoroplastic resin impregnated

NITOFLON® Adhesive Tape No. 973UL-S/No. 973UL

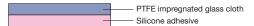
Application examples

- Heat-resistant masking
- Heat-resistant electrical insulation

Size

Product No.	Thickness (mm)	Width (mm)	Length (m)
No.973UL-S	0.13	10/15/19/20/25/30/38/40/50/75/80/	10
No.973UL	0.15/0.18	100/150/200/250/300/350/400/450	10

Structure



Properties

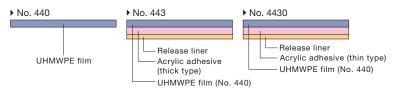
Product No.	Thickness (mm)	180° peel adhesion (N/19mm)	Tensile strength (N/19mm)
No.973UL-S	0.13	6.8	240
No.973UL	0.15	9.0	590
NO.973UL	0.18	9.7	530

No. 440/No. 443/No. 4430

Features

 Extremely high impact resistance compared to adhesive tapes using other plastic films
 Excellent wear resistance and self-lubricating properties

Structure



Size

Product No.	Thickness (mm)	Width (mm)	Length (m)	
No.440	0.1/0.13/0.2/0.3	300/350	10/30/50	
No.440 (Black)	0.4/0.5	300/330	10/30	
No.443	0.1/0.13/0.2/0.25/0.3	300/350	10/30/50	
No.443 (Black)	0.4/0.5	300/350	10/30	
No.4430 No.4430 (Black) 0.13/0.2/0.25		13/19/25/50/75 100/300/350	10/30/50	

^{*} The thicknesses shown for No. 443, No. 443 (Black), No. 4430, No. 4430 (black) represent the substrate

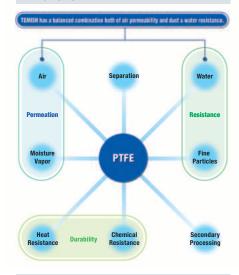
Fluoroplastic Porous Film Products

High performance vent filter

TEMISH features

TEMISH is a collective name for Nitto's series of PTFE (Polytetrafluoroethylene) porous membrane products. With hundreds of millions of micropores/cm², this series features waterproofing, dustproofing and air permeability. It also exhibits water, heat, chemical and weather resistance, along with exhibiting electrical properties, as excellent attributes of PTFE

Function

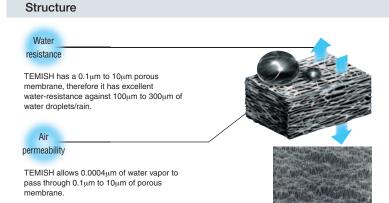


Application examples



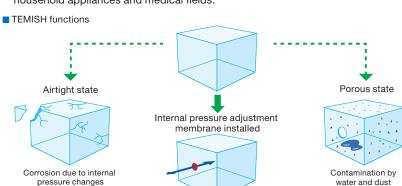
Various types of home application devices

TEMISH®



Properties

- Protects from corrosion by adjusting the pressure difference of the housing while resisting water and dust.
- Can be used in a wide range of areas including automotive, office appliances, household appliances and medical fields.

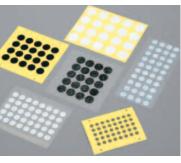


Resists water and dust while allowing air to go through

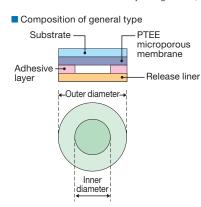
Product lineup

			Thickness	Air permeability*1		Water	
Туре	Substrate	Product No.	(mm)	Gurley (sec)	Frazir (cm3/cm2·sec)	resistance*2 (kPa)	Features
Two-layered product Polycotor Net	S-NTF1033-N06	0.10	-	5	7	High air permeability	
Standard type	Polyester Net	S-NTF1026-N06	0.10	10	-	200	High water resistance
Single-layered product Oil-repellent type	-	S-NTF810A	0.30	7	-	150	Oil repellency, high water resistance, reversible membrane, no difference between front and back sides, high heat resistance
Two-layered product	Polyester net	S-NTF2026A-N06	0.10	10	-	200	Oil repellency, high water resistance
Oil-repellent type	Printed polyester nonwoven fabric	S-NTF2131A-PS06	0.20	12	-	100	Oil repellency, high water resistance

^{*1} JIS P 8117 Gurley testing method, JIS L 1092 Frazir testing method *2 JIS L 1092 B Method (high water pressure)



Products processing TEMISH with double-coated adhesive tapes are also available.



Surface Protective Materials

Surface protective material for aluminum sashes



SPV®-A Series

Features

SPV-A-6050/A-8050 are environment-friendly surface protective materials that use water-based adhesive and polyethylene film as the backing.

- Offers superior adhesiveness to aluminum sashes.
- Easily peels off after use.
- Does not depend largely on surface roughness of substrate.
- Offers outstanding weatherability (excluding SPV-AW-303S white type).

Properties

Product No.	Thickness	90° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-A-6050	0.065	2.75	30	250	500
SPV-A-8050	0.085	3.00	35	250	500
SPV-AW-303S	0.120	4.50*1	35	250	White 50/ Black 500

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for draining plate



SPV®-CB-800K

Features

- Superior adhesive properties on rough surfaces.
- Also suited to the harsh environments such as outdoors.

Properties

Product No.	Thickness	180° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-CB-800K	0.065	11.00	60	700	1000

^{*} Stainless BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for glass curing



SPV®-224R

Protects glass at construction sites from welding sparks, scratches and dust.

- Applicable to outdoor use.
- RoHS directive compliant product

Properties

Product No.	Thickness	180° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-224R	0.080	1.00	50	200	500

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for colored metal plates



SPV®-C Series/364 Series

Offers superior protection for colored metal plates during transportation and processing.

- Minimal change in adhesive strength following application ensures easy peeling.
- Superior transparency enables inspection of the surface condition of the substrate without removing the tape.
- Depending on the surface roughness and degree of processing, the most suitable product among a wide range of adhesive strength products can be used.

Properties

Product No.	Thickness	90° peel adhesion	Tensile strength	Elongation	Weatherability
Froduct No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-C-100		0.70			
SPV-C-200		1.40			150
SPV-C-300	0.060	1.80	25	250	
SPV-C-400		2.00			100
SPV-C-500		2.50			100
SPV-C-600	0.090	2.50	30	220	_
SPV-364CK	0.050	2.70	45	600	50
SPV-364MK	0.055	3.40	45	000	50

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for stainless steel and aluminum plate



Features

SPV®-ME-4001

An environment-friendly surface protective material, that use special polyethylene film as the backing.

- Excellent application throughout the year
- Applicable for bending processability.

Properties

Draduat Na	Thickness	180° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-ME-4001	0.100	3.40	42	450	300

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for stainless steel and aluminum plates

Features An environmer polyethylene fi Environmen

SPV®-M-6020/M-6030

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An environment-friendly surface protective material, that uses water-based adhesive and polyethylene film as the backing.

- Environment-friendly due to no organic solvents being used from the manufacturing stage.
- Easily peels off after use.
- Adhesion at low temperatures can be easily done.
- Ideal for light processing.

Properties

Product No.	Thickness	180° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-M-6020	0.060	1.80	30	300	150
SPV-M-6030	0.060	2.50			

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min

Surface protective material for laser cutting



LASERGUARD Series

Features

The best product models can be selected depending on laser processing machines and content of operations.

- No need for film peeling-off work that was previously required before processing; this can lead to shortened working hours.
- SPV-LG-4002 (for CO₂) and SPV-310GH5 (for both CO₂ and fiber) are added to our product lineup as high-strength adhesive types designed with an emphasis on film peel-off prevention with assist gas.
- SPV-LG-4000 (for CO₂) and SPV-310GH3/SPV-3080H3 (for both CO₂ and fiber) are added to our product lineup as middle-strength adhesive types designed with an emphasis on light releaseability.
- Finer finishing by twice cutting pierced parts or cut sections.

Properties

Product No.	Thickness	180° peel adhesion	Tensile strength	Elongation	Weatherability
Product No.	(mm)	(N/20mm)	(N/20mm)	(%)	(S-W-M(h))
SPV-LG-4000		2.70	30	250	75
SPV-LG-4002	0.100	4.50	30	230	
SPV-310GH5	0.100	4.00	40	320	150
SPV-310GH3		1.70			150
SPV-3080H3	SPV-3080H3 0.080				75

^{*} Stainless steel BA plate as the substrate. Peeling speed: 300mm/min. Aging: 20-40 minutes

^{*1 180°} peel adhesion

Masking

Masking tape used for construction painting



No. 720A

Features

- Uses special adhesive that has weather resistance and leaves almost no adhesive residue
- Tough backing keeps the tape from tearing when peeled.
 Easy to unwind, can be applied in a straight line.

Application examples





Masking tape used for construction painting

No. 720

Features



Offers superior quality/balance such as excellent adhesive strength, backing strength, cutting and adhesive residue properties.

Tape will not come off while painting.

Application examples





Masking tape used for sealing

No. 727



- Easy to unwind; better workability.
- Adheres well to rough and uneven surfaces; offers superior properties.
- Adheres to glass and leaves almost no adhesive residue when peeled.
- Doesn't tear when peeled, and can be used for any type of primer.

Application examples





Masking tape used for painting

No. 7288

Features



Does not change color or leave adhesive residue, even after used for 30minutes in a 150°C

- Excellent workability; does not tear when peeled.
- Backing of the tape does not repel paint.
- Gives excellent paint break line.

Application examples





Masking tape used for automobile painting

No. 7239 Features



- Superior cutting enables easy workability.
- Can be used reliably on rubber and plastic areas and be applied in overlapping layers.
- Soft backing allows tape to firmly attach to break lines on straight-line sections as well as to curved areas.
- Almost no lifting, peeling or adhesive residue.

Application examples



General properties

Product No.	Color	Adhesive	Thickness (mm)	180° peel adhesion (N/18mm)	Unwinding force (N/18mm)	Tensile strength (N/18mm)
No.720A	Purple	Acrylic	0.100	3.3	2.3	58
No.720	White	Rubber	0.100	2.3	4.3	78
No.727	Red	Acrylic	0.105	3.6	2.2	75
No.7288	Yellow	Acrylic	0.100	3.6	6.0	66
No.7239	Yellow	Acrylic	0.090	3.6	6.0	75

Crepe masking tape used for automobile painting

No. 7290/No. 7291

Features



- Significant elongation allows for curves to be drawn easily.
- Excellent tape strength; doesn't tear when peeled.
- Backing of the tape does not repel paint.
- Easy to unwind; better workability.

Standard sizes

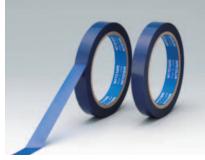
	Width (mm)	Length (m)	Qty/cs (rls)
	12		120
	15	50	90
Ī	19		60

Polyester masking tape MT-3155

Width (mm)	Length (m)	Qty/cs (rls)
25		60
38	50	36
50		30

Crepe masking tape used for

Features



• Features excellent linearity since polyester film is used as its base material; it also features fine break-line finish due to its thinness.

• Paint attached to the backside of the tape does not fall off easily while being peeled off, and does not contaminate surrounding areas.

Properties

Thickness (mm)	180° peel adhesion (N/18mm)	Tensile strength (N/18mm)	Elongation (%)
0.05	6.7	90	150

Curing

Curing tape for flooring

No. 395N



Features

- Minimizes misalignment and warpage of curing materials.
- Firmly adheres to polyethylene laminated curing paper.
- Leaves almost no adhesive residue even after being applied for an extended period of time.
- Uses no raw materials containing halogen or heavy metals such as lead.

Application examples





*Please avoid use on plain wood, vinyl chloride material, stone materials such as marble, or dressed lumber. When using on solid wood, please check carefully beforehand since adhesive residue is possible depending on the material. *Depending on the material of the substrate, period of application, and environment, damage to substrate and adhesive residue may occur. Please check carefully before use.

Standard sizes

Thickness (mm)	Width (mm) Length (m)		Qty/cs (rls)
0.125	25	25	60
	38	25/50	48
	50	25/50	30

Washi curing tape

No. 720A

- Uses special adhesive that lessens the possibility of damaging the substrate and adhesive
- Tape does not break when peeling and can be easily peeled off.
- Light rewinding, excellent workability.

Application examples





*Please avoid use on plain wood, vinyl chloride material, stone materials such as marble, or dressed lumber. When using on solid wood, please check carefully beforehand since adhesive residue is possible depending on the material.

*Depending on the material of the substrate, period of application, and environment, damage to substrate and adhesive residue may occur. Please check carefully before use.

Standard sizes

Thickness (mm)	Width (mm)	Length (m)	Qty/cs (rls)
0.10	38	F0	84
0.10	50	50	36

Adhesive tape for curing

NITOCLOTH No. 7500/No. 7503





- Offers superior adhesive strength, cutting property, intensity and weather resistance characteristics.
- There is hardly any adhesive residue when peeled

Standard sizes

Product name	Color	Width (mm)	Length (m)	Individual package	Qty/cs (rls)
No. 7500	Brown,	25 30	25	1 roll in pillow	60 60
No. 7503	green, coral	38 50	25	type package	30 30

Soundproofing

LEGETOLEX D-300N

- A large damping effect can be obtained by simply applying a small amount to metal ceiling surfaces (about 30 to 50%) to reduce the noise of rainfall.
- The product reduces rainfall noise by 10dB to 15dB.
- Exhibits damping effect within a wide range of temperatures (0-40°C). Stable adherence facilitates work.

Application examples



Rain noise reduction of air vents.

Structure

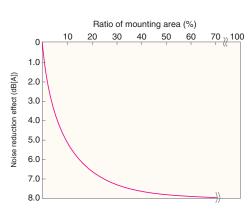
Aluminum sheet	 _
Synthetic rubber adhesive	 <u> </u>
Release liner	 _

Standard sizes

Thickness (mm)	Weight (kg/m²)
1.5	2.1

Properties

■ Relationship between mounting area and noise reduction



Note:

Noise reduction effect = (noise level before mounting damping material) - (noise level after mounting dampening material)

Ratio of damping material area indicates ratio of damping material mounting area to 400mm x 400mm steel panel

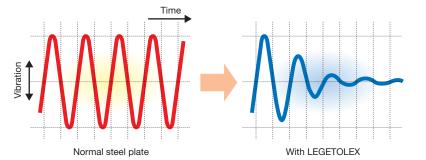
Thickness (mm)	Weight (kg/m²)	
1.5	2.1	

■ Initial adhesive strength (Substrate: stainless steel plate)

Ambient temperature	Peel adhesion (N/25mm)			
Product No.	0°C	20°C	40°C	
D-300N	91.4	59.4	22.1	

*Evaluation method: 90° peeling test

Damping effect



Safety-related Products

Slip prevention tape

Anti-skid Tape (AS-117/AS-127) [outdoor use]



Features

- Tape can be applied to various substrates and surfaces for outdoor use.
 Maintains good slip prevention properties for a long period of time.
 Product line-up includes AS-117 for smooth surfaces and AS-127 for rough surfaces.

Application examples



Standard sizes

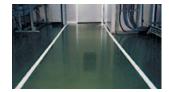
Thickness (mm)	Width (mm)	Length (m)	Qty/cs (rls)	Color	Structure
	50		12	Green,	Nonskid layer
1.0	100	5	6	black, yellow, blue, brown,	Backing AS-117: Polyester
1.0	150		6		AS-127: Aluminium Acrylic adhesive
	400		2	white	Release liner

Indicator tape

Line Tape E Series



Application examples



Features

- Uses environment-friendly polyolefin film instead of PVC.Contains no harmful heavy metals such as lead.
- No release liner type also available.

Standard sizes

Thickness (mm)	Width (mm)	Length (m)	Qty/cs (rls)	Colors (JIS safety colors)	Backing
	50		18	White, yellow, red, blue, green, orange*2	· · · · · · · · · · · · · · · · · · ·
0.16*1	*1 75 100	50	12		Polyolefin-based film
			9		

^{*1} Thickness of E-P is 0.21 mm. *2 Some colors are not offered for some products.

Without release liner

Product No.	Туре	Core	Packaging	
E-SD	For general use (standard type)	Paper	Individual shrink packaging	
E-OC	For general use (overcoat type)	гарег	individual shrink packaging	
E-CR	For clean rooms (overcoat type)	Polystyrene	Individual shrink packaging & polyethylene bag (with heat sealing)	

^{*}Tape surface of OC and CR types resists scratches and dirt. The tape is specially treated so it can be easily wiped off.

With release liner

Product No.	Туре	Core	Packaging	
E-A	For general use (standard type)	Paper	Individual shrink packaging	
E-P	For general use (overlaminated type)	raper	mulviduai siiriik packaging	

Indicator tape

SOMEN-line Tape [rough surface use]



- As tape uses heavy duty carrier and shows strong adhesion, it can be applied to very rough surfaces and maintains line indication for a long period of time.
 Tape performs perfectly immediately after application.
 It is easy to clean off the dirt from tape surface.

Standard sizes

	Thickness (mm)	Width (mm)	Length (m)	Qty/cs (rls)	Colors (JIS safety colors)	Backing
		50		16		PVC film (with release liner)
	0.91	75	10	12	White, yellow	
		100		8		(

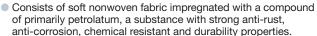
^{*}For other sizes, please contact a Nitto sales representative.

Anti-corrosion Products

Petrolatum anti-corrosion tape

No. 59 Series

Features



Because the tape is flexible and the front and back always offer tackiness, it offers protection from rust and corrosion for odd-shaped pipe parts, steel structures and tanks.

Application examples



Standard sizes

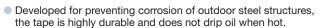
Product No.	Standard sizes	Product No.	Standard sizes	
No. 59L	Thickness: 1.1mm,	No. 59 (2.2mm) (thick tape)	Thickness: 2.2mm, Length: 10m Width: 1,000mm	
No. 59H	Length: 10m	No. 59 (2.211111) (triick tape)		
No. 59HN (flame retardant)	Width: 50/100/150/ 200/300mm	No. 59PW (primer)	16kg/can	
No. 59HT (heat resistant)	200/300111111	No. 59M (filler)	3kg/block	

Outdoor anti-corrosion tape



NITOHULLMAC XG Series

Features



- Easy to work with and can be used for repairs.
- Tight adherence and flexibility enable it to be used as "anti-corrosion tape that can used like paint."



Standard sizes

Product No.	Standard sizes		
NITOHULLMAC XG (tape)	Thickness: 1.1mm, Width: (50/100/150/200/300)mm, Length: 10m		
NITOHULLMAC XG-PN (primer)	16kg/can		
NITOHULLMAC XG-M (filler)	2kg/block		
NITOHULLMAC XG-T (coating material)	16kg/can		

PVC anti-corrosion tape





Features

- Offers superior durability and corrosion resistance.
- Consists of flexible film and thick adhesive. Adheres well to joints and curved parts. Provides superior sealing and cushioning.
- The backing is flexible, so it is ideal for work at low temperatures.
- JIS Z 1901 qualified anti-corrosion vinyl tape.
- Designated protective tape for No. 59 anti-corrosion tape for underground pipe in accordance with notification No. 90 regarding hazardous substances issued by the FDMA.

Standard sizes

PVC 0.4 25/50/75/100 10 Black, silver-gray	Backing	Thickness (mm)	Width (mm)	Length (m)	Color (2 colors)
	PVC	0.4	25/50/75/100	10	Black, silver-gray

PE anti-corrosion tape



No. 55

Has superior watertight properties because it is a self-fusing tape with a self-adhesive layer. Can be used with protective winding of No. 59 series of petrolatum anti-corrosion tape for underground piping

Standard sizes

Backing	Thickness (mm)	Width (mm)	Length (m)	Color
Polyethylene	0.4	50/100	10	Black

Nitto Technical Support Centers

Product Information Contacts

•About Products •Catalog and Data Sheet Delivery •Various Available Product Samples •Practical Evaluations •Other

Tape Customer Assistant Team

Support Products: Double-coated adhesive tape, Metal foil tape Supported Sample Sizes: A4, specified width (small roll)

TEL: +81-532-41-8400/ +81-532-41-8267 FAX: +81-532-41-8473

E-mail: tcat@nitto.co.jp

TFOX

Tape and Foam Expert Support Center

Support Products: Sealing materials (Foam materials, Reinforcing materials,

Vibration-damping materials), Waterproof and airproof tapes,

Masking tapes for painting, Vinyl tapes, Bar code labels

TEL: +81-532-41-7838 FAX: +81-532-41-8446

E-mail: tfox@nitto.co.jp

TDOC

Technical Dock (Doctor)

Support Products: Surface protective films, Masking tape for plating

Supported Sample Sizes: Specified width (small roll, approx. 20m)

TEL: +81-532-41-7223 FAX: +81-532-41-8446

E-mail: tdoc@nitto.co.jp

TCOW

Technical Support for Customer of World

Supported Products: Electrical insulating tapes, Tapes for transporting and

manufacturing electronic components, Semiconductor wafer

protection and fixing tapes

TEL: +81-532-41-7559 FAX: +81-532-41-8446

E-mail: tcow@nitto.co.jp

Hours: 9:00 - 17:30 (excluding saturdays, sundays, public holidays, year-end and new-year period and summer holidays)

Engineering Plastics Your Enhancement System

Support Products: Fluoroplastic products (sheets, tapes, filters), Ultra-high

molecular weight polyethylene products (Low-friction tape,

18, Hirayama, Nakahara-cho, Toyohashi, Aichi 441-3194

Air permeability sheets)

Supported Sample Sizes: A4, etc.

TEL: +81-48-571-3340 FAX: +81-48-571-3325

E-mail: eyes@nitto.co.jp



Hours: 9:00 - 17:30 (excluding saturdays, sundays, public holidays, year-end and new-year period and summer holidays) 1-8-5, Hatara-cho, Fukaya, Saitama 366-8521

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