## Technical Data

| | Product number | Thickness (mm) | Backing material | (mm) | Adhesive 1st surface | Adhesive 2nd surface | Adhesion 1st surface N/10mm | Adhesion 2nd surface N/10mm | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| A | 9110 | 0.190 | Polyester film + Glass | – | Rubber | | 3.90 | | Tensile strength : 696.0N/10mm |
| | 9116 | 0.180 | Polyester film + Glass | – | Synthetic rubber | | 5.01 | | Tensile strength : 697.0N/10mm |
| | 9510 | 0.170 | Polyester film + Polyester | – | Rubber | | 4.65 | | Tensile strength : 320.0N/10mm |
| | 9514 | 0.170 | Polyester film + Polyester | – | Rubber | | 4.65 | | Tensile strength : 320.0N/10mm |
| B | 8010 | 0.095 | Aluminum foil, matte | 0.050 | Acrylic | | 4.51 | | Operating temperature limit : -10~100℃ |
| | 8060 | 0.105 | Aluminum foil, matte | 0.050 | Acrylic | | 5.30 | | Operating temperature limit : -30~130℃ |
| | 8063 | 0.100 | Aluminum foil, matte | 0.050 | Silicone | | 7.00 | | Operating temperature limit : -30~300℃ |
| | 8065 | 0.100 | Aluminum foil, matte | 0.050 | Acrylic | | 9.00 | | Operating temperature limit : -10~130℃、No release liner |
| | 8070 | 0.080 | Aluminum foil, matte | 0.050 | Acrylic | | 4.00 | | Operating temperature limit : 0~100℃、※1 |
| | 8071 | 0.080 | Aluminum foil, matte | 0.050 | Acrylic | | 4.00 | | Operating temperature limit : 0~100℃、No release liner、※1 |
| | 8073 | 0.100 | Aluminum foil, matte | 0.050 | Acrylic | | 6.00 | | Operating temperature limit : 0~100℃、No release liner、※1 |
| | 8110 | 0.095 | Aluminum foil, glossy | 0.050 | Acrylic | | 4.51 | | Operating temperature limit : -10~100℃ |
| | 8160 | 0.105 | Aluminum foil, glossy | 0.050 | Acrylic | | 5.30 | | Operating temperature limit : -30~130℃ |
| | 8170 | 0.080 | Aluminum foil, glossy | 0.050 | Acrylic | | 4.00 | | Operating temperature limit : 0~100℃、※1 |
| | 8824 | 0.120 | Stainless foil | 0.040 | Acrylic | | 13.70 | | Operating temperature limit : -10~130℃ |
| | 9800 | 0.105 | Aluminum foil + Woodfree paper | – | Synthetic rubber | | 5.70※2 | | Operating temperature limit : -10~80℃ |
| | 9807 | 0.140 | Aluminum foil + Woodfree paper | – | Synthetic rubber | | 6.60※2 | | Operating temperature limit : -10~80℃、No release liner |
| | 9810 | 0.195 | Aluminum foil + Glass cloth | – | Acrylic | | 4.70 | | Operating temperature limit : -20~130℃ |
| | 9812 | 0.210 | Aluminum foil + Glass cloth | – | Synthetic rubber | | 15.68 | | Operating temperature limit : -10~80℃ |
| | 9815 | 0.200 | Aluminum foil + Glass cloth | – | Acrylic | | 7.50 | | Operating temperature limit : -20~130℃ |
| | 9817 | 0.210 | Aluminum foil + Glass cloth | – | Silicone | | 5.00 | | Operating temperature limit : -30~250℃ |
| | 9890 | 0.150 | Glossy aluminum foil + Nonwoven polyethylene fabric | – | Synthetic rubber | | 11.76 | | Operating temperature limit : -10~80℃ |
| | 9891 | 0.150 | Matte aluminum foil + Nonwoven polyethylene fabric | – | Synthetic rubber | | 11.76 | | Operating temperature limit : -10~80℃ |
| C | 5988 | 0.450 | Polyethylene net | – | Butyl rubber | Butyl rubber | 13.73 | 13.73 | Recommended waterproof tape of JAPAN FIBER REINFORCED CEMENT SIDINGS MANUFACTURERS ASSOCIATION |
| | 5938 | 0.500 | Polyethylene net | – | Butyl rubber | Butyl rubber | 7.84 | 7.84 | Water vapor permeability : 1.2 g/m² · 24 h、Recommended waterproof tape of JAPAN FIBER REINFORCED CEMENT SIDINGS MANUFACTURERS ASSOCIATION |
| | 5957 | 0.700 | Polyethylene net | – | Butyl rubber | Butyl rubber | 7.84 | 7.84 | |
| | 5931 | 1.000 | Polyethylene net | – | Butyl rubber | Butyl rubber | 9.80 | 9.80 | |
| | 5932 | 2.000 | Polyethylene net | – | Butyl rubber | Butyl rubber | 13.73 | 13.73 | |
| | 5933 | 3.000 | Polyethylene net | – | Butyl rubber | Butyl rubber | 15.68 | 15.68 | |
| | 5958 | 0.450 | Nonwoven polypropylene fabric/ Nonwoven polyethylene fabric | – | Butyl rubber | Butyl rubber | 7.84 | 7.84 | Recommended waterproof tape of JAPAN FIBER REINFORCED CEMENT SIDINGS MANUFACTURERS ASSOCIATION |
| | 5901 | 1.000 | Polyethylene net | – | Butyl rubber (white) | Butyl rubber (white) | 19.60 | 15.68 | |
| | 3494 | 0.173 | Polyethylene fabric | – | Acrylic | | 9.40 | | |
| | 4420 | 0.750 | Nonwoven polyester fabric | – | Butyl rubber | | 7.84 | | Water vapor permeability : 2.5 g/m² · 24 h |
| | 6120 | 0.550 | Polypropylene film | – | Butyl rubber | | 7.85 | | |
| | 9241 | 0.470 | Polyethylene film + Nonwoven polyester fabric | – | Butyl rubber | | 7.05 | | |
| | 9244 | 0.500 | Nonwoven polyester fabric + Polyethylene film | – | Butyl rubber | | 9.81 | | |
| | 9280 | 0.500 | Polyethylene fabric + Aluminum foil | – | Butyl rubber | | 7.80 | | |
| | 9290 | 0.500 | Polyethylene net + Aluminum foil | – | Butyl rubber | | 7.84 | | Water vapor permeability : 0.5 g/m² · 24 h |
| | 9830 | 0.600 | Polyester film + Aluminum foil | – | Butyl rubber | | 11.76 | | |
| | 9836 | 0.450 | Polyester film + Aluminum foil | – | Butyl rubber | | 10.00 | | |
| | 9839 | 0.450 | Aluminum foil + Polyester film | – | Butyl rubber | | 10.00 | | |
| | 9940 | 0.350 | PE laminate + Synthetic fabric (black) | – | Butyl rubber | | 7.40 | | Water vapor permeability : 1.0 g/m² · 24 h |
| D | 3330/3335 | 0.320 | Polyethylene laminated cloth | – | Rubber | | 2.94 | | ● No.333035 Thickness 0.310mm |
| | 3372 | 0.290 | Polyethylene laminated cloth | – | Rubber | | 2.94 | | |
| | 3430 | 0.330 | Polyethylene laminated cloth | – | Rubber | | 2.94 | | |
| | 3440 | 0.140 | Polyethylene fabric | – | Acrylic | | 2.80 | | "Floor Masking Tape"、Floor masking use |
| | 3448 | 0.150 | Polyethylene fabric | – | Acrylic | | 3.60 | | "Protec Tape"、Building masking use |
| | 3489 | 0.105 | Polyethylene laminated synthetic cloth | – | Acrylic | | 2.65 | | "Masking Cut Light Tape"、masking use |
| | 3362SS | 0.260 | Polyethylene laminated cloth (yellow・black) | – | Rubber | | 2.94 | | |
| | 9651 | 0.100 | Printed film (red・white) + Reflective layer | – | Acrylic | | 3.88※2 | | |
| | 9652 | 0.115 | Printed film (yellow・black) + Reflective layer | – | Acrylic | | 3.88※2 | | |
| | 5567 | 1.100 | Special foam polyethylene (White) | – | Acrylic | Acrylic | 6.28※2 | 6.28※2 | |

※1 Environmentally sensitive adhesive. (Solvent free) ※2 Measured by 90° peel.
○Test method : JIS Z 0237 ○The values measured are referential only, not guaranteed value.

○The spec of the product maybe changed without prior notice. ○Please check that the tape suits your application before use. ○Take care when using the tape as Sliontec shall not be held liable for damage occurring as a result of using the tape.


maxell
Within, the Future

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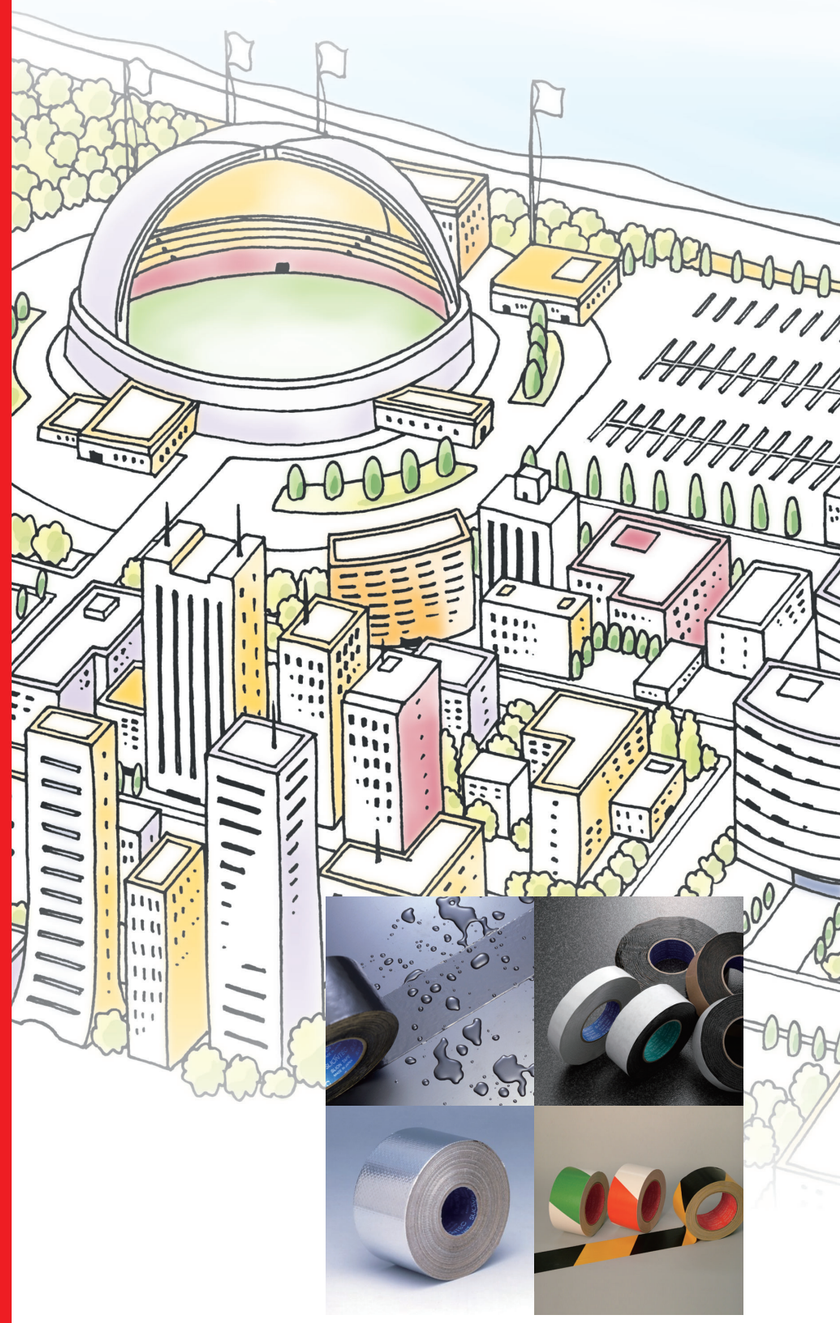
ISO14001
approved

Inquiry

2203ⓓ : web

SLIONTEC

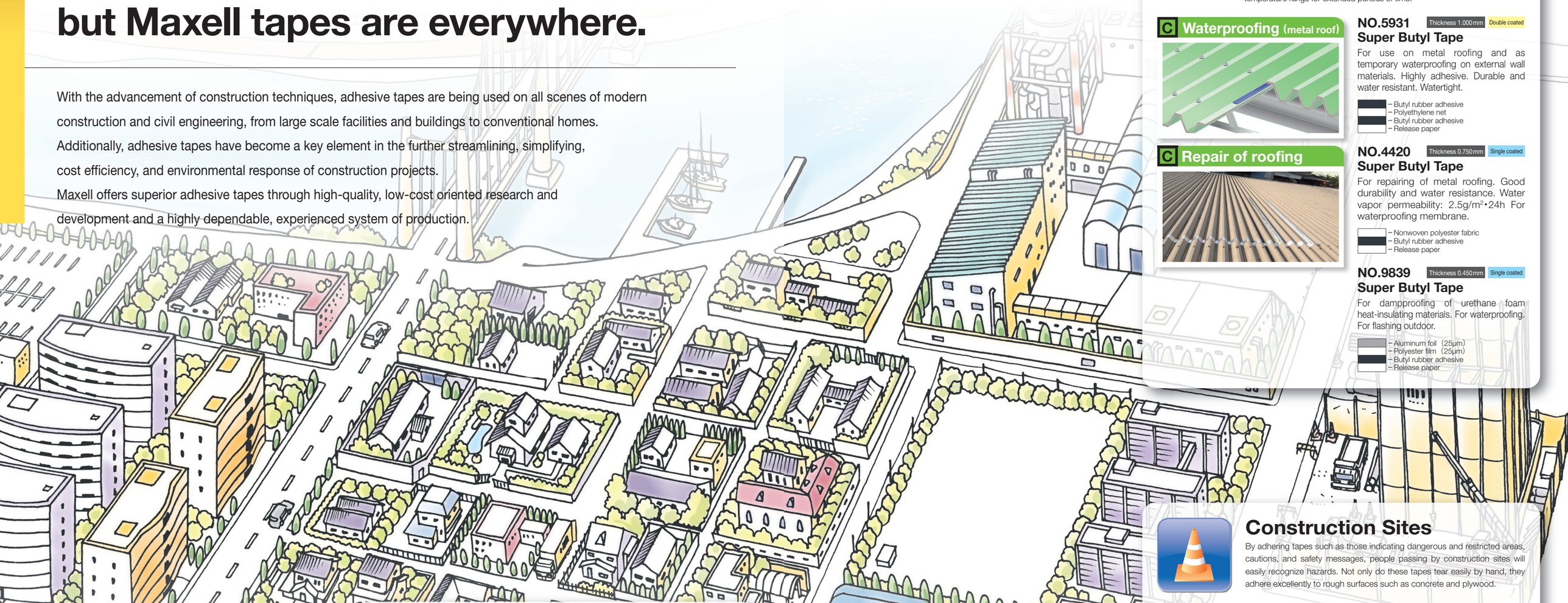
# Adhesive Tapes for
## Construction and Civil Engineering



http://sliontec.maxell.co.jp

# You never would have guessed it, but Maxell tapes are everywhere.

With the advancement of construction techniques, adhesive tapes are being used on all scenes of modern construction and civil engineering, from large scale facilities and buildings to conventional homes. Additionally, adhesive tapes have become a key element in the further streamlining, simplifying, cost efficiency, and environmental response of construction projects. Maxell offers superior adhesive tapes through high-quality, low-cost oriented research and development and a highly dependable, experienced system of production.



## Factories

Our butyl tape is optimal for various uses such as a sealing material for the overlapped sections of seam jointed metal roofs used in facilities such as factories and as an airtight sealing material in the piping of refrigerated storage units. Our tape maintains a balanced, high level of adhesive force over a wide temperature range for extended periods of time.

### C Waterproofing (metal roof)



**NO.5931** Thickness 1.000mm | Double coated

**Super Butyl Tape**

For use on metal roofing and as temporary waterproofing on external wall materials. Highly adhesive. Durable and water resistant. Watertight.

- Butyl rubber adhesive
- Polyethylene net
- Butyl rubber adhesive
- Release paper

### C Repair of roofing



**NO.4420** Thickness 0.750mm | Single coated

**Super Butyl Tape**

For repairing of metal roofing. Good durability and water resistance. Water vapor permeability: 2.5g/m²·24h For waterproofing membrane.

- Nonwoven polyester fabric
- Butyl rubber adhesive
- Release paper

**NO.9839** Thickness 0.450mm | Single coated

**Super Butyl Tape**

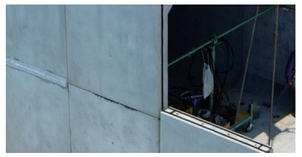
For dampproofing of urethane foam heat-insulating materials. For waterproofing. For flashing outdoor.

- Aluminum foil (25μm)
- Polyester film (25μm)
- Butyl rubber adhesive
- Release paper

## Public Facilities (waterproofing)

Our butyl tapes, with their superior waterproofing and air-tightening properties, are used as waterproofing seals for the lifeline public utility conduits of the infrastructure of large scale public facilities such as universities, general hospitals, and convention centers.

### C Lifeline public utility conduit



**NO.4420** Thickness 0.750mm | Single coated

**Super Butyl Tape**

Timber framed construction. For home waterproofing and patching. Excellent durability and water resistance.

- Nonwoven polyester fabric
- Butyl rubber adhesive
- Release paper

**NO.9244** Thickness 0.500mm | Single coated

**Super Butyl Tape**

For home waterproofing. Excellent durability and water resistance.

- Nonwoven polyester fabric
- Polyethylene film
- Butyl rubber adhesive
- Release paper

## Construction Sites

By adhering tapes such as those indicating dangerous and restricted areas, cautions, and safety messages, people passing by construction sites will easily recognize hazards. Not only do these tapes tear easily by hand, they adhere excellently to rough surfaces such as concrete and plywood.

### D Danger indicators

**NO.3362SS** Thickness 0.260mm | Single coated

**Tape for use as danger indicators**

For use as danger indicators at construction sites, walkways, factories, and train stations. Colors: Yellow and black.

- Polyethylene laminated cloth
- Rubber adhesive

### D Danger indicators (reflective)

**NO.9651** Thickness 0.100mm | Single coated

**Reflective tape**

For use as danger indicators at construction sites, walkways, factories, and train stations. Highly reflective. Colors: Red and white.

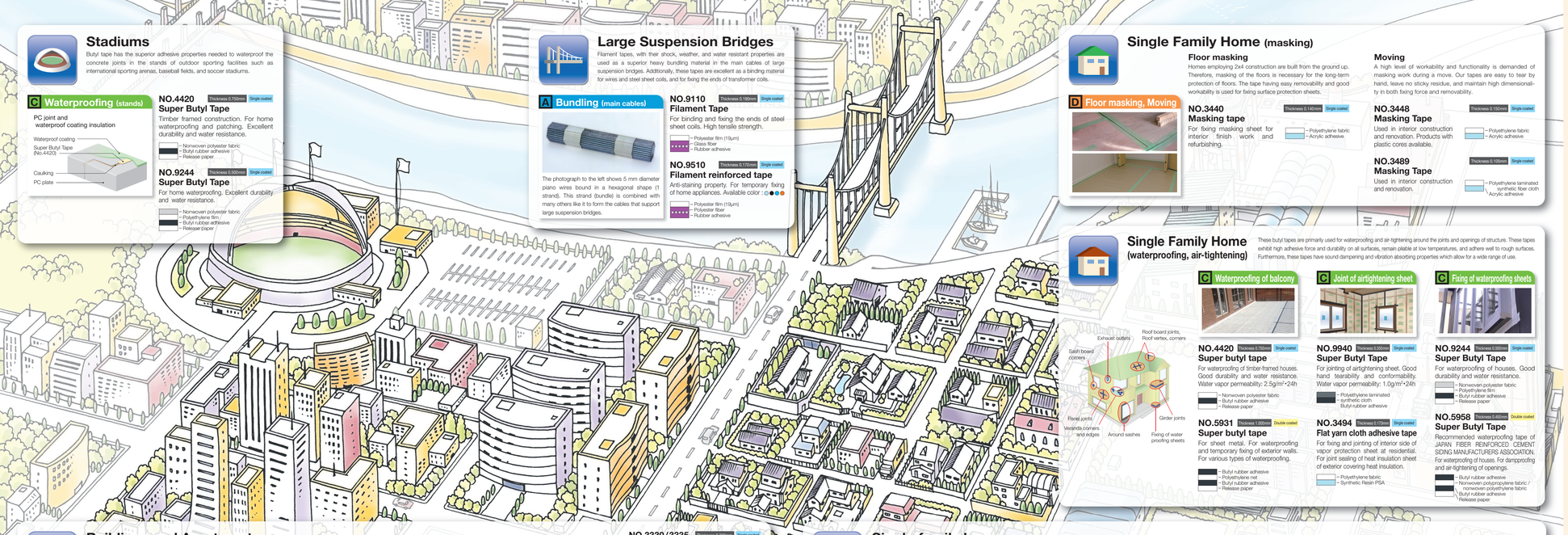
- Printed film
- Glass beads
- Aluminum vapor deposition
- Acrylic adhesive
- Release paper

**NO.9652** Thickness 0.115mm | Single coated

**Reflective tape**

For use as danger indicators at construction sites, walkways, factories, and train stations. Highly reflective. Color：Yellow/Black

- Printed film
- Glass beads
- Aluminum vapor deposition
- Acrylic adhesive
- Release paper



## Stadiums

Butyl tape has the superior adhesive properties needed to waterproof the concrete joints in the stands of outdoor sporting facilities such as international sporting arenas, baseball fields, and soccer stadiums.

### C Waterproofing (stands)

PC joint and waterproof coating insulation




**NO.4420** Thickness 0.750mm | Single coated
**Super Butyl Tape**
Timber framed construction. For home waterproofing and patching. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Butyl rubber adhesive
– Release paper

**NO.9244** Thickness 0.500mm | Single coated
**Super Butyl Tape**
For home waterproofing. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Polyethylene film
– Butyl rubber adhesive
– Release paper

## Large Suspension Bridges

Filament tapes, with their shock, weather, and water resistant properties are used as a superior heavy bundling material in the main cables of large suspension bridges. Additionally, these tapes are excellent as a binding material for wires and steel sheet coils, and for fixing the ends of transformer coils.

### A Bundling (main cables)



The photograph to the left shows 5 mm diameter piano wires bound in a hexagonal shape (1 strand). This strand (bundle) is combined with many others like it to form the cables that support large suspension bridges.

**NO.9110** Thickness 0.190mm | Single coated
**Filament Tape**
For binding and fixing the ends of steel sheet coils. High tensile strength.
– Polyester film (19μm)
– Glass fiber
– Rubber adhesive

**NO.9510** Thickness 0.170mm | Single coated
**Filament reinforced tape**
Anti-staining property. For temporary fixing of home appliances. Available color : ○●●●●
– Polyester film (19μm)
– Polyester fiber
– Rubber adhesive

## Single Family Home (masking)

### Floor masking

Homes employing 2x4 construction are built from the ground up. Therefore, masking of the floors is necessary for the long-term protection of floors. The tape having easy removability and good workability is used for fixing surface protection sheets.

### Moving

A high level of workability and functionality is demanded of masking work during a move. Our tapes are easy to tear by hand, leave no sticky residue, and maintain high dimensionality in both fixing force and removability.

### D Floor masking, Moving



**NO.3440** Thickness 0.140mm | Single coated
**Masking tape**
For fixing masking sheet for interior finish work and refurbishing.
– Polyethylene fabric
– Acrylic adhesive

**NO.3448** Thickness 0.150mm | Single coated
**Masking Tape**
Used in interior construction and renovation. Products with plastic cores available.
– Polyethylene fabric
– Acrylic adhesive

**NO.3489** Thickness 0.105mm | Single coated
**Masking Tape**
Used in interior construction and renovation.
– Polyethylene laminated synthetic fiber cloth
– Acrylic adhesive

## Single Family Home (waterproofing, air-tightening)

These butyl tapes are primarily used for waterproofing and air-tightening around the joints and openings of structure. These tapes exhibit high adhesive force and durability on all surfaces, remain pliable at low temperatures, and adhere well to rough surfaces. Furthermore, these tapes have sound dampening and vibration absorbing properties which allow for a wide range of use.




### C Waterproofing of balcony



**NO.4420** Thickness 0.750mm | Single coated
**Super butyl tape**
For waterproofing of timber-framed houses. Good durability and water resistance. Water vapor permeability: 2.5g/m²·24h
– Nonwoven polyester fabric
– Butyl rubber adhesive
– Release paper

**NO.5931** Thickness 1.000mm | Double coated
**Super butyl tape**
For sheet metal. For waterproofing and temporary fixing of exterior walls. For various types of waterproofing.
– Butyl rubber adhesive
– Polyethylene net
– Butyl rubber adhesive
– Release paper

### C Joint of airtightening sheet



**NO.9940** Thickness 0.330mm | Single coated
**Super Butyl Tape**
For jointing of airtightening sheet. Good hand tearability and conformability. Water vapor permeability: 1.0g/m²·24h
– Polyethylene laminated
– synthetic cloth
– Butyl rubber adhesive

**NO.3494** Thickness 0.170mm | Single coated
**Flat yarn cloth adhesive tape**
For fixing and jointing of interior side of vapor protection sheet at residential. For joint sealing of heat insulation sheet of exterior covering heat insulation.
– Polyethylene fabric
– Synthetic Resin PSA

### C Fixing of waterproofing sheets



**NO.9244** Thickness 0.500mm | Single coated
**Super Butyl Tape**
For waterproofing of houses. Good durability and water resistance.
– Nonwoven polyester fabric
– Polyethylene film
– Butyl rubber adhesive
– Release paper

**NO.5958** Thickness 0.450mm | Double coated
**Super Butyl Tape**
Recommended waterproofing tape of JAPAN FIBER REINFORCED CEMENT SIDING MANUFACTURERS ASSOCIATION. For waterproofing of houses. For dampproofing and air-tightening of openings.
– Butyl rubber adhesive
– Nonwoven polypropylene fabric / nonwoven polyethylene fabric
– Butyl rubber adhesive
– Release paper

## Buildings and Apartments

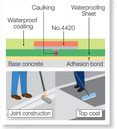
A superior tape which offers air-tightening, durability, anti-humidity and anti-aging properties for the sealing of duct joints and insulation joints, and the waterproofing of roofs.
Additionally, this tape can be used to mask steel beams, rebar, steel pipes, and concrete surfaces of outdoors which are exposed to adverse conditions.
We even have a masking tape that is optimal for preventing dust from scattering when working indoors.
These products support a wide range of building projects from housing complexes to office and tenant buildings.

### B Joint insulation

**NO.8070** Thickness 0.080mm | Single coated
**Aluminum tape (matte)** Environmentally friendly
For air-conditioning duct sealing, and joint sealing of heat insulation material.
– Aluminum foil (50μm)
– Acrylic adhesive
– Release paper

**NO.9810** Thickness 0.195mm | Single coated
**Aluminum glass cloth tape**
For air conditioning duct sealing. Joint sealing of heat insulation material. Wide range of application temperature. Good adhesion under cold temperature.
– Aluminum foil
– Bond
– Glass cloth
– Acrylic adhesive
– Release paper

### C Waterproofing (roof)




**NO.4420** Thickness 0.750mm | Single coated
**Super Butyl Tape**
Timber framed construction. For home waterproofing and patching. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Butyl rubber adhesive
– Release paper

**NO.9244** Thickness 0.500mm | Single coated
**Super Butyl Tape**
For home waterproofing. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Polyethylene film
– Butyl rubber adhesive
– Release paper

### D Masking (painting)

**NO.3330/3335** Thickness 0.320mm | Single coated
**Cloth Masking Tape**
For securing masking sheets such as protective plastic laid down when painting.
– Polyethylene
– laminated cloth
– Rubber adhesive

**NO.3372** Thickness 0.200mm | Single coated
**Cloth Masking Tape**
For general masking. Excellent resistance to weather.
– Polyethylene
– laminated cloth
– Rubber adhesive

**NO.3430** Thickness 0.330mm | Single coated
**Cloth Masking Tape**
For construction use. Outstanding resistance to weather. High strength backing material.
– Polyethylene
– laminated cloth
– Rubber adhesive

## Single family home (Other application)

### Exterior wall

The tape is used as a jointing structure when applying outer wall tiles with adhesive on a siding substrate. It relieves the stress on the tiles and prevents from cracking.

### D Exterior wall

**NO.4420** Thickness 0.750mm | Single coated
**Super Butyl Tape**
Timber framed construction. For home waterproofing and patching. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Butyl rubber adhesive
– Release paper

**NO.9244** Thickness 0.500mm | Single coated
**Super Butyl Tape**
For home waterproofing and patching. Excellent durability and water resistance.
– Nonwoven polyester fabric
– Polyethylene film
– Butyl rubber adhesive
– Release paper

### Interior panel

This double-coated tape is used together with adhesives during renovation projects to temporarily affix building materials such as wall panels, decorative panels, and kitchen panels, and also to affix interior panels. Its superior initial adhesion and ability to adhere to uneven surfaces make the streamlining of fixing tasks possible.

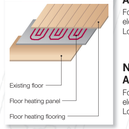
### D Interior panel


**NO.5567** Thickness 1.100mm | Double coated
**D/C PE foam tape**
For use with an adhesive when fixing interior finishing materials. Used as a temporary fixing agent until the adhesive hardens.
– Acrylic adhesive
– Special foam polyethylene (White)
– Acrylic adhesive
– Release paper

### Floor heating

This aluminum tape with superior initial adhesion and durability can be used when fixing panels during installation of floor heating panels. Additionally, by applying aluminum tape, heat is transferred uniformly throughout the heating system and hot/cold spots can be eliminated.

### B Floor heating

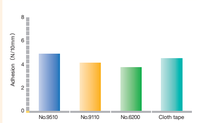



**NO.8070** Thickness 0.080mm | Single coated
**Aluminum tape (matte)** Environmentally friendly
For use securing heat dispersion and home electronics. Excellent resistance to heat and cold. Long product.
– Aluminum foil (50μm)
– Acrylic adhesive
– Release paper

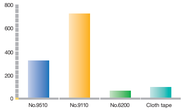
**NO.8071** Thickness 0.080mm | Single coated
**Aluminum tape (matte)** Environmentally friendly
For use securing heat dispersion and home electronics. Excellent resistance to heat and cold. Long product.
– Aluminum foil (50μm)
– Acrylic adhesive

## A Filament Tape Adhesion Properties

### Adhesion to stainless steel plates

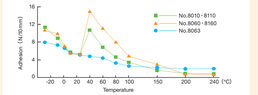



### Tensile strength




## B Aluminum Tape Adhesion Properties

### Temperature dependency of adhesive of aluminum tapes



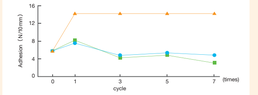

Measurements were taken by affixing the tape to a stainless steel plate, pressure bonding it by rolling a 2 kg roller back and forth over it 5 times, letting it rest at a controlled temperature for 20 minutes, and then immediately peeling the tape off using 180° peeling.

### Adhesion relative to different adherend

| Adherend \ Tape | No.8060 No.8160 | No.8063 | No.8010 No.8110 |
|---|---|---|---|
| | N/10mm (g/25mm) | N/10mm (g/25mm) | N/10mm (g/25mm) |
| Stainless steel plate | 5.3(1,350) | 5.9(1,500) | 4.9(1,150) |
| Aluminum plate | 7.4(1,880) | 5.2(1,330) | 6.4(1,620) |
| Acrylic coated plate | 6.2(1,590) | 6.5(1,650) | 5.3(1,340) |
| PVC board | 13.3(3,400) | 6.7(1,700) | 8.3(2,120) |
| Glass plate | 7.1(1,810) | 5.9(1,510) | 6.8(1,740) |
| Polyethylene board | 1.7( 440) | 1.7( 430) | 1.9( 480) |
| Plywood | 3.3( 850) | 1.9( 850) | 4.9(1,260) |

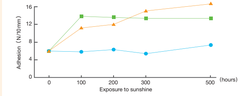
Tape was pressure bonded by rolling a 2 kg roller back and forth 5 times over it.
Measurements were taken in compliance with JIS Z 0237.

### Adhesion after heat cycle test




Test plate: Stainless steel plate Application Conditions: 23°C × 50%RH
1 cycle: (0°C × 24h) + (70°C water × 24h) + (80°C × 24h)
Measurement Conditions:Following the heat cycle, test plate was left to rest for 24 hours at 23°C and 50% relative humidity. Then, tape was peeled using the 180° peeling method.

### Adhesion after weatherability test

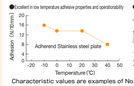



Test plate: Stainless steel plate Application Conditions: 23°C × 50%RH
Exposure Conditions: Weather-O-meter (18 minute rainfall during a 120 minute period)
Measurement Conditions:Following exposure, test plate was left to rest for 24 hours at 23°C and 50% relative humidity. Then, tape was peeled using the 180° peeling method.

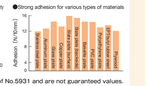
## C Super Butyl Tape Adhesion Properties

### Excellent adhesive properties

●Excellent in low temperature adhesive properties and operationality



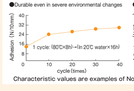

●Strong adhesion for various types of materials




Characteristic values are examples of No.5931 and are not guaranteed values.

### Excellent durability

●Durable even in severe environmental changes




●Can be used outside without worry


Characteristic values are examples of No.5931 and are not guaranteed values.

### Excellent heat and cold resistant properties

●Excellent in high temperature cohesion

| Items | Temperature | Days passed | | | |
|---|---|---|---|---|---|
| | | 2 | 5 | 10 | 15 |
| Appearance (visual observation) | 80 | No cracks | | | |
| | 100 | | | | |
| | 120 | No sags (heat flow) of adhesive | | | |
| Heat expansion % | 80 | (-0.3, 0) | (-0.5, 0) | (-0.7, 0) | (-0.8, 0) |
| | 100 | (-1.3, +0.5) | (-1.4, +0.5) | (-1.5, +0.5) | (-1.8, +0.5) |
| | 120 | (-1.5, +0.5) | (-1.8, 0) | (-2.0, 0) | (-2.2, 0) |
| vertical, horizontal Extension μm | 120 | (-1.5, +0.5) | (-1.8, 0) | (-2.0, 0) | (-2.2, 0) |

●Excellent in low temperature flexibility

| Adherend \ Measuring temperature | -30℃ | -40℃ | -50℃ | -60℃ |
|---|---|---|---|---|
| 100μm polyethylene film | ○ | ○ | △ | × |
| Kent paper | ○ | ○ | △ | △ |

Evaluation: ○:No abnormalities △:The tape never came off the adherend, although flexibility of it was reduced. △:The tape never came off the adherend, although flexibility of it was lacked and tape was bent. ×:The flexibility of the adhesive disappears. The tape was bent and peeled off the surface.
Test method:According to Fed. Test method std. No. 101B, Method 2051 (American Federal Temperatures).

Apply at 20℃→Leave at 60℃×24h→Flash measuring temperature:Kth cooling
→bent as it wrapping a rolled stick( Ø 19φ ).
※Wrapping was also conducted under the same measuring temperature.)