

Nitto

Innovation for Customers

TAPES FOR ELECTRICAL & ELECTRONIC EQUIPMENT



Nitto

Innovation for Customers

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Polyimide adhesive tape
No.360 Series

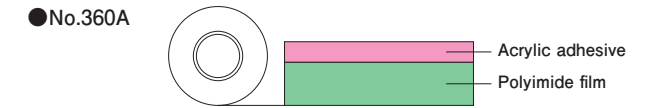
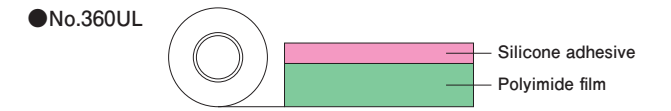
Heat-resistant electrical insulation.

Widely used in a variety of applications, such as heat-resistant electrical insulation, heat-resistant masking, component mounting reflow processes, and the manufacturing processes of various types of electronic components.

Features

- Offers superior electrical insulation properties.
- Offers superior dimension stability.
- Offers superior heat resistance.
- Available in long lengths.

Structure



Applications

- Heat-resistant masking.
- Heat-resistant electrical insulation.

Line-up

Product No.	Thickness (mm)		Standard length (m)	Color
	Total	(Backing)		
No.360UL	0.060	(0.025)	20	Light Amber Brown
	0.090	(0.050)		
No.360A	0.053	(0.025)	20	Light Amber Brown
	0.080	(0.050)		

Properties

Product No.	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.360UL	5.4	145	65	8.0	1.00
	5.4	250	65	11.0	
No.360A	4.0	145	65	8.0	1.00
	4.4	250	65	11.0	

- UL 510 Flame Retardant • E34833



Fluoroplastic adhesive tape NITOFLON® No.903UL / No.923UT

Single-coated fluoroplastic tape equipped with a wide array of features.

NITOFLON® No.903UL consists of a polytetrafluoroethylene (PTFE) film base coated on one side (treated side) with heat-resistant silicone adhesive. The tape offers resistance to heat and chemicals as well as an abundance of superior properties such as excellent electrical properties, non-tackiness and low coefficient of friction.

Features

- UL 510 Flame Retardant certified.
- Applied in the same manner as ordinary tape; realizes smooth wrapping, bundling and sealing.
- Offers superior flame retardancy.
- Uses class H insulation materials.
- Environment-friendly product conforms to Notification No.20 of the Japanese Ministry of Health, Labour and Welfare.
- No.923UT is only 0.04mm thick and does not take space.

Applications

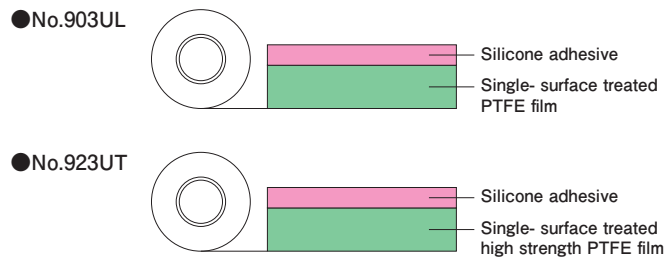
- Heat-resistant electrical insulation.
- Heat seals. ● Sliding material.
- Prevents tacky material from adhering.

Line-up

Product No.	Thickness (mm)	Width (mm)	Standard length (m)
No.903UL	0.08, 0.13, 0.18, 0.23	5, 9, 10, 13, 15, 18, 19, 20, 22, 25, 30, 38, 40, 50, 75, 80, 100, 150, 200, 250, 300, 350, 400, 450	10
No.923UT	0.04	10, 13, 19, 25, 30, 38, 50, 75, 100, 125, 150, 200	5, 10

- UL 510 Flame Retardant • E34833

Structure



Glass-cloth adhesive tape No.185 / No.188UL

Super strong electrical insulation tape that offers reliable adherence.

No.185 is a heat-resistant adhesive tape featuring superior physical strength and electrical insulation properties. No.188UL is a heat-resistant electrical insulation tape that offers superior heat resistance, mechanical strength and flame retardancy (UL certified).

Features

- Offers superior physical strength and electrical insulation properties.
- Offers superior thermal insulation.
- Thermosetting properties offer enhanced solvent and wax resistance by heating.
- Heating significantly increases adhesive strength.

Applications

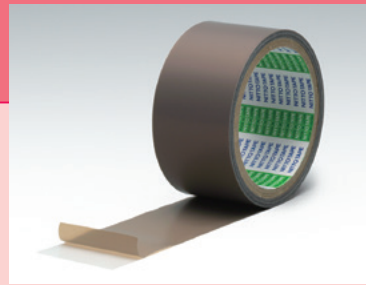
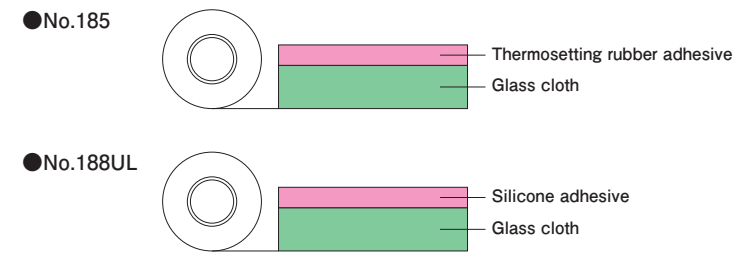
- Outer and interlaminar insulation for heat-resistant transformers.
- Covering of parts.
- Outer insulation for and bundling of coils.

Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.185	0.170 (0.130)	20	White	7.5	500	8	3.0	0.8 or more
No.188UL	0.180 (0.130)	33	White	6.7	600	5	3.5	0.96

- No.188UL (UL 510 Flame Retardant E34833)

Structure



Fluoroplastic adhesive tape NITOFLON® No.903-T

Fluoroplastic tape with release liner that facilitates work.

NITOFLON No.903-T is a polytetrafluoroethylene adhesive tape with a polyester liner. The tape is provided with various features such as electrical properties and facilitates work such as punching and application.

Features

- Offers superior punchability.
- Easy to apply.
- Provided with polyester film release liner.

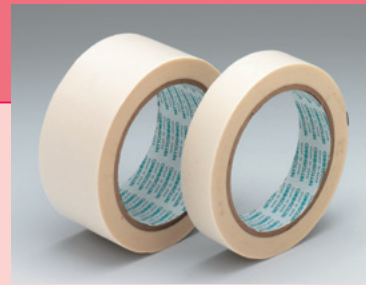
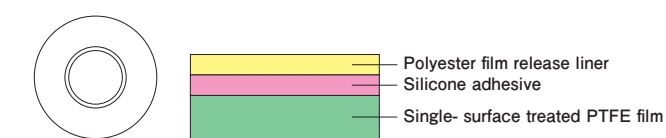
Applications

- Heat-resistant electrical insulation.
- Heat seals. ● Sliding material.
- Prevents tacky material from adhering.

Line-up

Product No.	Type	Thickness (mm)	Width (mm)	Standard length (m)
No.903-T	With Polyester release liner	0.08	25, 50, 75, 100, 150, 200, 250, 500	10
		0.13		
		0.18		
		0.23		

Structure



Glass-cloth adhesive tape ST-HG-T

Flame-retardant tape with superior heat resistance and adherence.

ST-HG-T is a heat-resistant electrical insulation tape consisting of glass cloth coated with silicone adhesive.

Features

- Provides superior physical and mechanical strengths.
- Special satin weave glass-cloth backing offers superior adherence to substrates.
- Offers heat-resistance and enhances adhesive strength when heated.
- Offers superior flame retardancy (UL 510 Flame Retardant certified).

Applications

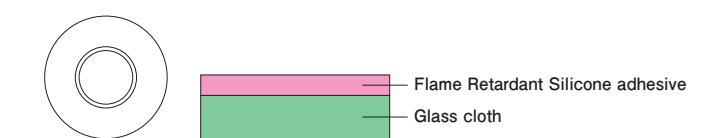
- Heat-resistant termination and bundling of coils.
- Heat-resistant outer insulation and protection of parts.

Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Breakdown voltage (kV)	Electrolytic corrosion factor
ST-HG-T	0.19 (0.12)	20	White	8.0	600	3.0	0.95 or more

- UL 510 Flame Retardant E64170

Structure





Nomex adhesive tape No.380 / No.386UL

Stable electrical insulation properties at high temperatures.

Nomex that provides superior heat-resistance is used as the backing. Very practical for electrical insulation and battery electrode insulation that require heat resistance. No. 386UL is a UL certified tape.

*Nomex is a registered trademark of DuPont

Features

- Offers superior electrical insulation.
- Offers superior flame retardancy.
- Offers superior heat resistance.
- Available in long lengths (up to 300m).

Applications

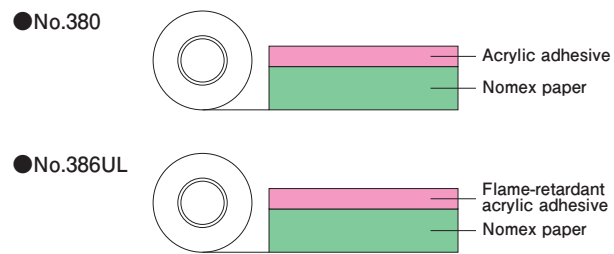
- Outer insulation and termination of coils.
- Heat-resistant electrical insulation.
- Battery electrode insulation.

Properties

Product No.	Thickness (mm)		Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
	Total	(Backing)							
No.380	0.100	(0.050)	50	White	8.0	80	10	3.0	0.95 or more
	0.130	(0.075)			7.5	140	10	3.5	0.95 or more
No.386UL	0.120	(0.050)	50	White	6.5	80	10	3.0	0.9 or more
	0.140	(0.075)			6.5	140	10	3.5	

●No.386UL (UL 510 Flame Retardant E34833)

Structure



Polypropylene adhesive tape No.370 Series

Polypropylene adhesive tape with superior solvent resistance.

Tape developed to maintain insulation properties inside electronic components using organic solvents such as capacitors and batteries is equipped with a polypropylene film backing with superior solvent resistance. The tape is ideal for fixing of aluminum electrolytic capacitor elements and lithium ion secondary batteries.

Features

- Offers superior electrical insulation.
- Offers superior solvent resistance.

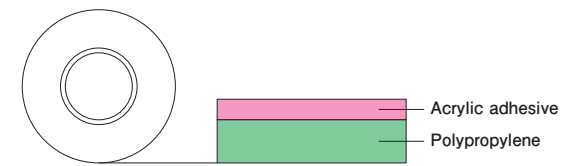
Applications

- Fixing of aluminum electrolytic capacitor elements.
- Fixing of lithium ion secondary battery elements.

Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m)	Color	Peel adhesion (N/10mm)	Tensile strength (N/10mm)	Elongation (%)
No.3703F	0.055 (0.030)	400, 4000, 8000	Transparent	3.5	40	180
No.3703DF	0.055 (0.030)	200, 400	Light green	3.5	40	180

Structure



PPS adhesive tape No.320A Series

For structural materials of chip electrolytic capacitors and secondary batteries.

Employing heat-resistant Nomex as the backing. Nitto No.403FP is used as electrical insulation and for insulation of battery electrodes requiring heat resistance.

*Nomex is a registered trademark of DuPont

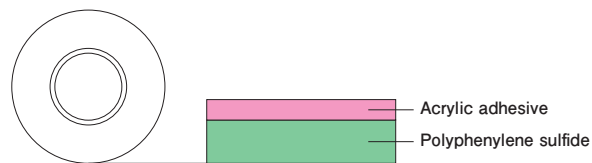
Features

- Offers superior electrical insulation.
- Offers superior dimension stability.
- Offers superior heat resistance.

Applications

- Fixing of aluminum electrolytic capacitor elements.
- Insulation of electrodes in lithium ion secondary batteries.

Structure



Line-up

Product No.	Thickness (mm)		Standard length (m)	Color
	Total	(Backing)		
No.320A#16	0.035	(0.016)	20	Cream
No.320A	0.053	(0.025)		

Properties

Product No.	Peel adhesion (N/10mm)	Tensile strength (N/10mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.320A#16	3.0	34	64	3.7	1.00
No.320A	3.3	55	60	5.5	



Special film heat-resistant light adhesive tape/sheet T-APN10

Heat-resistant light adhesive adhesive tape with special film backing that allows easy removal of the applied tape even after heated.

This light adhesive tape with superior heat-resistance withstands various heating processes used for printed circuit board or device component production.

Features

- Offers very light adhesion that allows easy removal.
- Even after heated, leaves no adhesive residue when removed and exhibits superior dimension stability.
- Long shelf life up to 6 months at room temperature.
- Offers superior punchability.

Applications

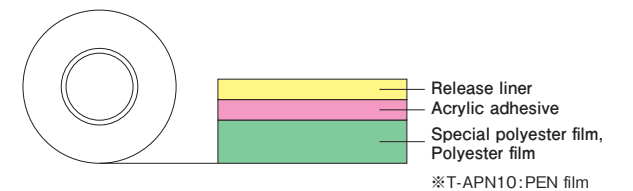
- Reinforcement and masking for ultra-thin circuits (thin copper coated base & copper foils).
- Protection during through-hole drilling.
- Suitable for masking during conductive paste filling.

Properties

Product No.	Thickness (mm)* Total (Backing)	Standard length (m)	Color	Peel adhesion (N/20mm)
T-APN10	0.020 (0.016)	200	Transparent	0.20

*Excluding the release liner

Structure



※T-APN10: PEN film



Polyester adhesive tape No.31 Series / No.315

Used for outer/interlaminar insulation of transformers and coils.

Tape developed for outer/interlaminar insulation of transformers and coils. Nitto has a wide lineup of backing thicknesses and adhesive types/colors; the tapes can be used for various applications. Nitto is also proud of its abundant experience with tapes for electronic equipment insulation.

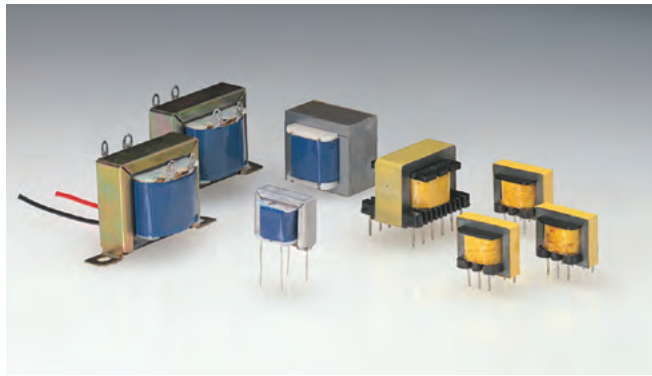
No.31 Series

Features

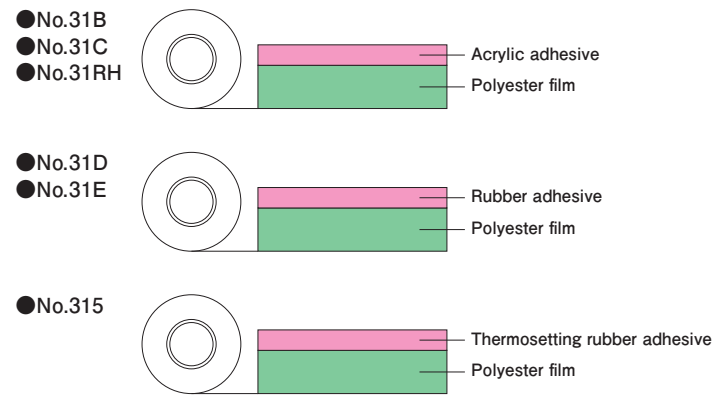
- Offers superior electrical insulation.
- Offers superior dimension stability.
- Offers superior heat resistance.
- Narrow width processing is available.
- Available in long lengths.

Applications

- Electrical insulation of transformers and coils.

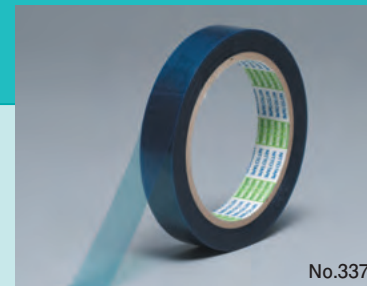


Structure



Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m) [Core diameter (mm)]	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.31B	0.053 (0.025)	50 [75φ]	Transparent	5.5	100	110	5.5	1.00
	0.080 (0.050)			7.5	196	130	8.0	
No.31C	0.053 (0.025)	50 [75φ]	White, Yellow, Red, Green, Blue, Black	5.5	100	110	7.0	
	0.080 (0.050)			7.5	196	130	11.0	
No.31RH	0.053 (0.025)	50 [75φ]	Transparent	6.5	100	110	5.5	
	0.053 (0.025)			White, Red, Green, Blue, Black	6.5	100	110	
No.31D	0.053 (0.025)	50 [75φ]	Transparent	5.5	100	110	5.5	
	0.080 (0.050)			7.0	196	130	8.0	
No.31E	0.053 (0.025)	50 [75φ]	White, Yellow, Red, Blue, Black	5.5	100	110	7.0	
No.315	0.060 (0.025)	50 [75φ]	Transparent	12.0	100	110	5.5	
	0.085 (0.050)			14.5	196	130	8.0	
	0.060 (0.025)		Yellow	12.0	100	110	7.0	
	0.085 (0.050)			14.5	196	130	11.0	



Polyester adhesive tape No.336 / No.337

Thin backing and thick adhesive layer make No.336/No.337 adhesive tape deal for plating masking.

Thin backing and thick adhesive layer makes the tape ideal for heat-resistant plating masking. Almost no plating solution leaks in so it exhibits high reliability.

No.337

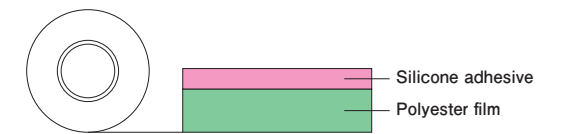
Features

- Film is thin and offers excellent flexibility.
 - Has thick adhesive layer so almost no plating solution leaks in.
- ※ Resistibility of plating solution. Backing will be changed weaker when it soaked in heated alkali solution by long hours using.

Applications

- Heat-resistant masking.

Structure



Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (MPa)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.336	0.060 (0.025)	33	Transparent, Blue	6.4	130	80	5.4	1.00
	0.080 (0.050)			6.6	170	100		
No.337	0.100 (0.025)	33	Blue	6.2	130	80	5.5	



Flame-retardant polyester adhesive tape NO3161FR Series

Flame-retardant polyester tape is UL-510FR certified at 130°C temperature rating.

Electrical insulation adhesive tape consists of polyester film backing, coated with flame-retardant acrylic adhesive.

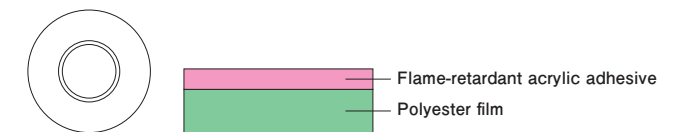
Features

- Offers superior electrical insulation.
- Does not contain Polybrominated Biphenyl or Polybrominated Diphenylethers to comply with RoHS regulations.

Applications

- Outer/interlaminar insulation of power switching transformers and ordinary power transformers.
- Outer/interlaminar insulation for the high frequency chalk coil, high voltage transformer.

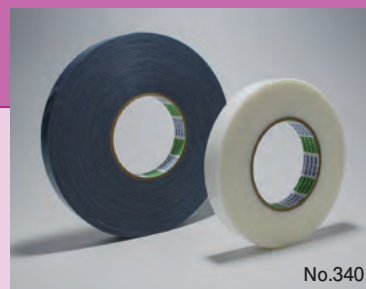
Structure



Properties

Product No.	Thickness (mm) Total (Backing)	Standard length (m) [Core diameter (mm)]	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
NO3161FR1	0.054 (0.025)	50 [75φ]	Milky	8.0	100	110	6.0	1.00
			White, Yellow, Red, Green, Blue, Black				7.0	
NO3161FR2	0.080 (0.050)		Milky	9.0	196	130	8.0	

- UL 510 Flame Retardant temperature rating : 130°C E34833



Composite adhesive tape No.340 / No.341 Series , No.343B

High-electrical insulation and tracking-resistant properties that contribute to increasing the compactness of coils and transformers.

High-insulation adhesive tape with an acrylic adhesive applied to a composite substrate of nonwoven fabric and polyester film. This can serve not only as a winding stopper for the exterior of coils but also contribute to greater transformer design freedom and more compact transformers.

No.340

Features

- Adheres well to coils, etc., and offers superior flexibility.
- Heating increases adhesive strength.
- Offers superior electrical insulation.
- Complies with PLC-O of UL-746A (CTI: 600U or more).
- Conforms to CTI grade I of IEC-950.

Applications

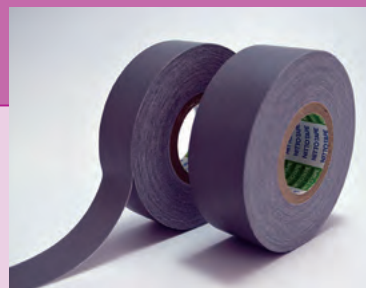
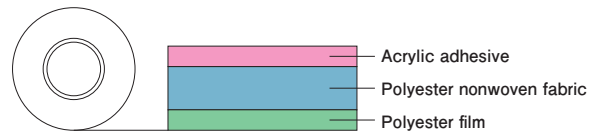
- Outer insulation and termination of coils.
- Barrier insulation of transformers and coils.

Properties

Product No.	Thickness (mm)		Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
	Total	(Backing)							
No.340	0.240	(0.180)	50	White, Blue	7.5	170	60	5.5	0.98 or more
No.341F	0.420	(0.350)	50,200	White, Blue	6.0	120	60	5.5	0.98 or more
No.341S	0.250	(0.160)	100	White, Blue	10.5	130	100	9.0	0.98 or more
No.343B	0.420	(0.370)	30	White	17.0	205	33	8.0	0.98 or more

- No.343B (UL 510 Flame Retardant temperature rating : 130°C, CTI PLC of O E34833)

Structure



Composite adhesive tape No.345EG

Low-VOC adhesive tape with superior hand-cuttability and sound deadening qualities.

Sound deadening tape coated with low-VOC acrylic adhesive on our original special carrier of nonwoven fabric sandwiched between polyethylene(PE) films.

Features

- Superior workability due to its superior hand cuttability
- Superior sound deadening qualities due to the use of nonwoven fabric with superior cushioning
- Use of low-VOC adhesive as an environmental measure

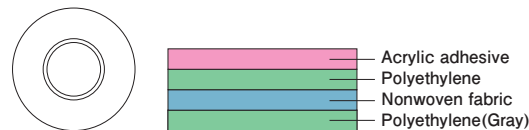
Applications

- For wiring harnesses and sound deadening

Properties

Product No.	Thickness (mm)		Standard length (m)	Color	90° peel adhesion	Tensile strength (N/19mm)	Elongation (%)
	Total	(Backing)					
No.345EG	0.250	(0.210)	14	Gray	5	70	10

Structure



Ultra-high-molecular-weight polyethylene adhesive tape No.443 / No.4430

Adhesive tape with excellent impact resistance, wear resistance, and self-lubricating capabilities.

Pressure-sensitive adhesive tape based ultrahigh-molecular-weight polyethylene film with release liner. Offers extremely high impact resistance, superior wear resistance and self-lubricating properties. Enhanced adhesive strength is realized by incorporating adhesive technology into film with excellent chemical resistance.

Features

- Extremely high impact resistance; particularly excellent chemical resistance among plastics.
- Excellent wear resistance.
- Excellent self-lubricating properties.

Size

Product No.	Thickness (mm)		Width (mm)	Standard length (m)
	Total	Substrate		
No.443 No.443 (Black)	0.27, 0.30, 0.37, 0.42, 0.47 0.57, 0.67	0.1, 0.13, 0.2, 0.25, 0.3 0.4, 0.5	300, 350	10, 30, 50 10, 30
No.4430 No.4430 (Black)	0.16, 0.23, 0.28	0.13, 0.2, 0.25	13, 19, 25, 50, 75, 100, 300, 350	10, 30, 50

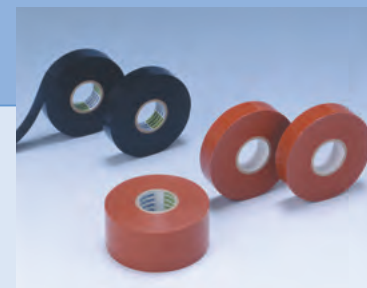
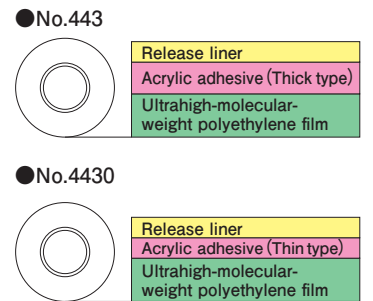
Properties

Product No.	Thickness (mm)		Peel adhesion (N/20mm)	Tensile strength (MPa)	Elongation (%)	Surface resistance (Ω)
	Total	Substrate				
No.443	0.30	0.13	17.1	55.3	400	10 ¹⁶
No.443 (Black)			14.5	51.3	380	10 ⁶
No.4430	0.16	0.13	10.9	55.3	400	10 ¹⁶
No.4430 (Black)			10.6	51.3	380	10 ⁶

Applications

- Filler for various types of products; wrapping of slide surfaces/guide rails of label applicators.
- Wrapping of slide surfaces/guide rails of automatic vending machines.
- Washer lining.

Structure



Self-fusing tape No.11 / No.15 / No.66 / No.660

Rubber-based self-fusing tapes that have excellent electrical properties.

No.11, 15 are butyl rubber self-fusing tapes that do not cause metal corrosion. No.66, 660 are silicone rubber type self-fusing tapes that are heat and weather resistant.

Features

- Excellent in the electrical property, ozone resistance and weather resistance
- Do not cause metal corrosion (No.11, 15)
- Excellent heat resistance (No.66, 660)

Applications

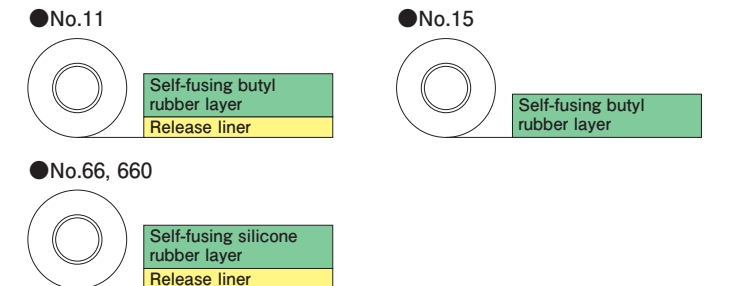
- Treating/connecting the ends of electrical cables. (No.11, 15)
- Insulation banding for wire harness in the engine area of the car. (No.66, 660)

Properties

Product No.	Thickness (mm)*	Width (mm)	Standard length (m)	Color	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)
No.11	0.5	19	10	Black	30	500	20
No.15	0.5	19	10	Black	30	500	20
No.66	0.5	19, 25	15	Red brown	70	500	20
No.660	0.22	19	15	Red brown	25	400	13

*Excluding the release liner

Structure





Acetate adhesive tape No.5 / No.5EG / No.151UL / No.153 / No.155 / No.156A

Acetate cloth adhesive tape offers superior heat resistance and flexibility.

Electrical insulation tape consists of acetate cloth coated with acrylic or rubber adhesive. No.156A and No.151UL are UL-certified flame-retardant adhesive tape, and is used insulating electrical and electronic equipment, protective insulation of wire harnesses and binding.

No.156A

Features

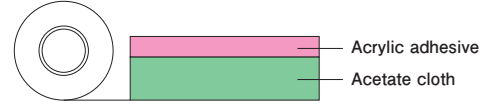
- Easy to work with.
- Superior flexibility makes it ideal for binding uneven electrical wiring.
- Offers superior corrosion resistance.
- Environment-friendly tape of low VOC.(No.5EG)
- No.151UL is halogen-free.
- Low VOC strong adhesive tape.(No.153)

Applications

- Outer insulation and termination of coils.
- For bonding wire harness on home appliances.(No.151UL)

Structure

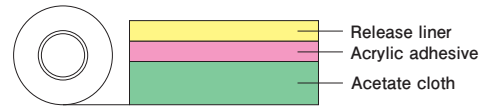
●No.5, No.5EG



●No.151UL



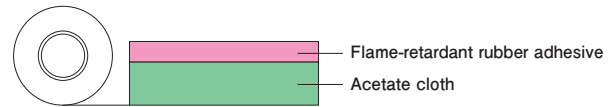
●No.153



●No.155



●No.156A



Properties

Product No.	Thickness (mm)		Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)
	Total	(Backing)						
No.5	0.23	(0.18)	30	White, Black	6.0	120	20	3.0
No.5EG	0.23	(0.18)	20	Black	5.0	120	20	3.0
No.151UL	0.23	(0.18)	50	Black	5.0	120	20	3.0
No.153	0.21	(0.18)	50	White, Black	10.0	120	20	3.0
No.155	0.23	(0.18)	30	Black	8.0	130	20	3.0
No.156A	0.25	(0.18)	30	White, Black	8.0	130	20	2.0

●No.151UL (UL 50 Flame Retardant E64170) , No.156A (UL 510 Flame Retardant E34833)



Cotton adhesive tape No.7A

Ideal for outer insulation and termination of coils.

Adhesive tape designed to facilitate work consists of cotton cloth coated with acrylic adhesive. Ideal for outer insulation and termination of coils.

Features

- Easy to work with.
- Flexible and is easy to cut straight.

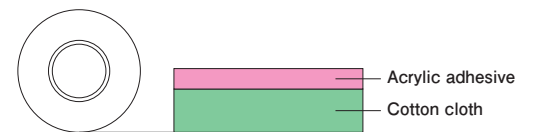
Applications

- Outer insulation and termination of coils.

Properties

Product No.	Thickness (mm)		Standard length (m) [Core diameter (mm)]	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)
	Total	(Backing)						
No.7A	0.22	(0.15)	30 [75φ]	White	3.5	200	7.0	1.0

Structure



Vinyl adhesive tape No.223S

A standard tape meeting the UL standards.

This vinyl adhesive tape is used as a flame-retardant insulation of degaussing coils. The tape meets standards of the American UL (Underwriters Laboratories) and the Canadian CSA (Canadian Standards Association) and contributes to enhancing safety of electronic equipment and products.

Features

- Offers superior flame-retardant and electrical insulation properties.
- Can be used for wrapping corners of degaussing coils.
- UL 510 Flame Retardant and CSA certified.

Applications

- Electrical insulation and binding of CRT degaussing coils.

Properties

Product No.	Thickness (mm)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)

- UL 510 Flame Retardant E34833
- CSA C22.2 No.197-M1983 028317_0_000

Structure





Non-halogen adhesive tape No.2400 / No.2450

Realizes same bundling properties as PVC without halogen.

Nitto has developed an adhesive tape that offers the same strength and user-friendliness as PVC plus better heat resistance through a combination of non-halogen base film and adhesive.

Features

- Same colors of PVC are available in Non-halogen, and can maintain the same color identification.
- Tape design offers same banding performance as PVC and is just as easy to use.
- Offers improved long-term heat resistance and fogging properties that are the disadvantages of PVC.

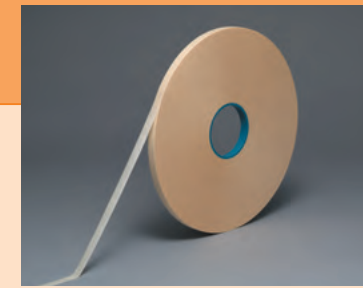
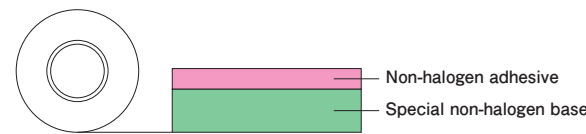
Applications

- For banding wire harness and identification.

Properties

Product No.	Thickness (mm)	Standard length (m)	Color	Peel adhesion (N/19mm)		Tensile strength (N/19mm)	Elongation (%)
No.2400 (For general banding)	0.11	25	Black	Stainless steel plate	4.12	27.5	365
				Own backing	4.95		
No.2450 (For identification)	0.11	25	12 colors	Stainless steel plate	4.36	27.5	366
				Own backing	5.42		

Structure



Paper adhesive tape for shipping radial electronic parts No.744S

Plays a huge role in radial taping of electronic components with lead pins.

No.744S is used for radial taping of electronic components with lead-in wire for shipment. Nitto offers a full lineup of adhesive tapes for applications ranging from small to large components, and largely contributes to automation and enhancing reliability of the component insertion process.

Features

- Offers superior component holding.
- Facilitates taping.
- Available in long lengths.

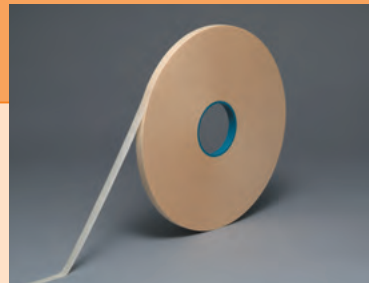
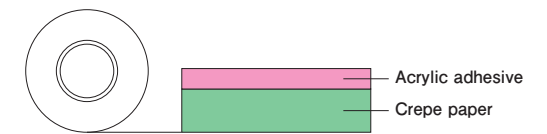
Applications

- Radial taping of electronic components with lead pins.

Properties

Product No.	Thickness (mm)	Standard length (m)	Color	Pulling-out force (N/10mm)	Tensile strength (N/15mm)	Elongation (%)
No.744S	0.180	500, 1000, 3000	Cream	80	130	16

Structure



Paper adhesive tape for electronic parts processes No.7464

For manufacturing process of electronic components with lead pins.

No.746 Series tapes can be used for general electrical insulation applications as well as for holding and fixing lead terminals for the process for electronic components with lead type. Because it uses a flexible backing, the tape offers superior user-friendliness and long-term preservation for taped components.

Features

- Offers superior component holding.
- Flexible backing offers superior taping.
- Offers superior long-term preservation for taped components.

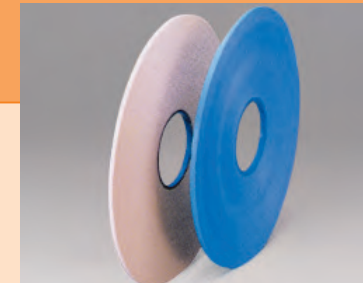
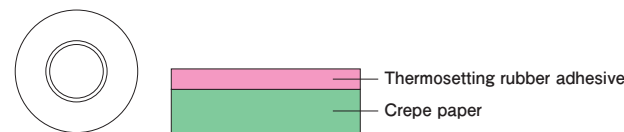
Applications

- Holding and fixing of leads during the manufacturing process for capacitors, etc.

Properties

Product No.	Thickness (mm)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)
No.7464	0.150	500, 3000	Cream	3.4	64	12

Structure



Paper adhesive tape for shipping axial electronic parts No.749R

Plays a huge role in axial taping of electronic components with lead pins.

No.749R is used for axial taping of electronic components with lead-in wire for shipment. Nitto adhesive tapes largely contribute to automation and enhanced reliability of the component insertion process for component sizes ranging from small to large.

Features

- Offers superior component holding.
- Facilitates taping.

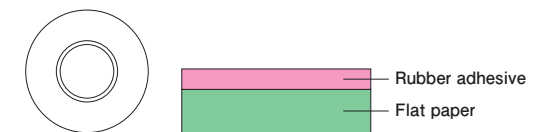
Applications

- Axial taping of electronic components with lead pins.

Properties

Product No.	Thickness (mm)	Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)
No.749R	0.140	500, 1000, 3000	Yellow, Blue, White	11.0	190	4

Structure

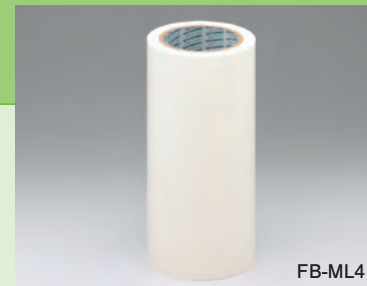




Polyester nonwoven fabric thermosetting bonding tape/sheet
P-EF Series

Thermosetting bonding sheets with superior sealing properties that offer easy taping.

P-EF Series is a thermosetting bonding sheet using polyester nonwoven fabric impregnated with epoxy resin.



Backing-less thermoplastic bonding tape/sheet
FB-ML4 • FB-ML80

Thermoplastic bonding tape that strongly and rapidly bonds in a few seconds.

FB-M Series is a thermoplastic bonding tape with superior and quick bonding properties for various materials, and is storable at room temperature.

Features

- Long shelf life up to 3 months at a temperature under 20°C (P-EF50).
- Containing a sufficient amount of resin, P-EF11 provides a just the right amount of resin flow.
- The surface adhesive layer provides increased workability (P-EF50).
- Their sufficient flexibility provides superior adherence to substrates.

Applications

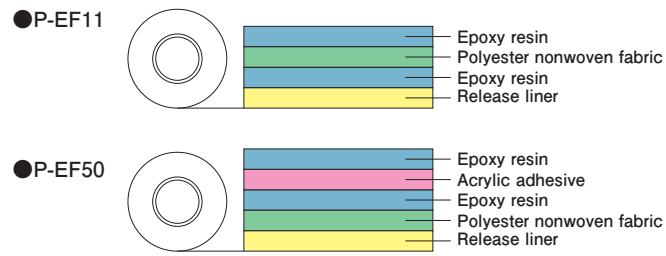
- Adhesion of a HIC metal board to its plastic case.
- Outer insulation and protection of coils.

Properties

Product No.	Thickness* (mm)	Standard length (m)	Color	Shear strength (N/cm ²)	Bonding condition (approximate values)		Storage condition
					Temperature (°C)	Time (min.)	
P-EF11	0.3, 0.5	20	White	1400	100-140	60-30	Sealed and stored at 10°C or less
P-EF50	0.18	30	Milky	1400	120-180	60-30	Sealed and stored at 20°C or less

*Excluding the release liner

Structure



Features

- Bonds in a few seconds.
- ML4 offers superior bond strength for PET, PI, PC, ABS, PPO and PVC; PI, PC, ABS, and PVC; ML80 for PVC, PET-G, and epoxy glass.
- Long shelf life up to 6 months at a room temperature.

Applications

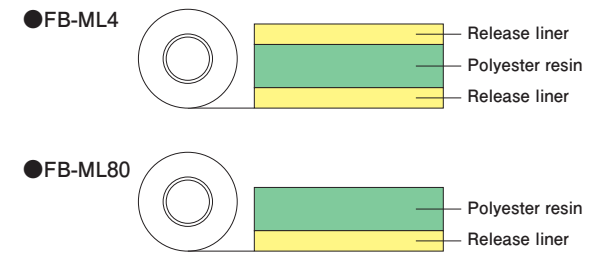
- Fixing modules of smart cards and small memory cards.
- Fixing plastic chasis to FPC.
- Bonding PET stiffeners to FPC.
- Bonding metal components with plastic chasis.

Properties

Product No.	Thickness* (mm)	Standard length (m)	Color	Shear strength (N/cm ²)	Bonding condition (approximate values)		Storage condition
					Temperature (°C)	Time (sec.)	
FB-ML4	0.05, 0.07	50	Semi-transparent	1600	130-	5-	Room temperature
FB-ML80	0.05	100	Semi-transparent	1600	120-	2-	Room temperature

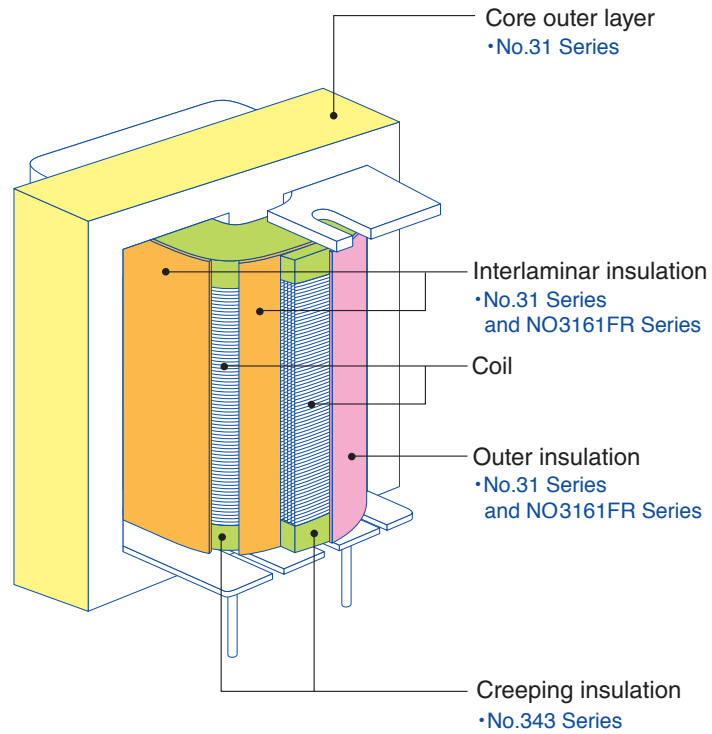
*Excluding the release liner

Structure

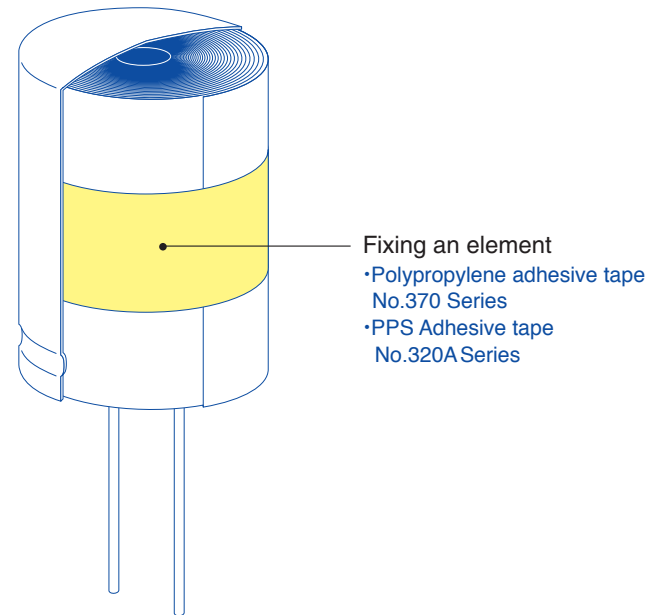


Structural materials

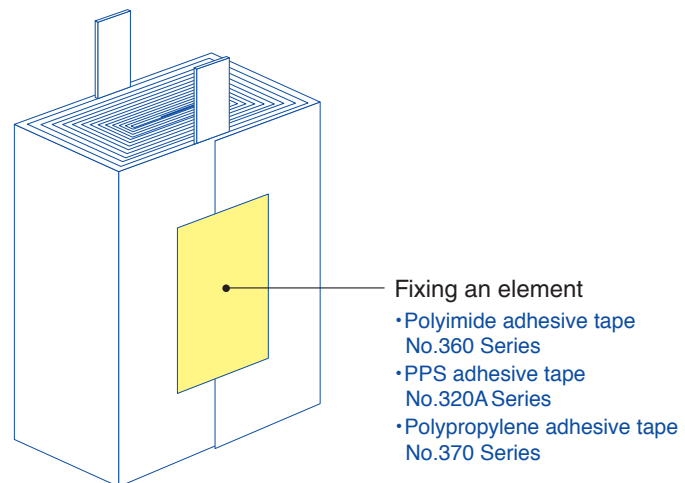
Power switching transformers



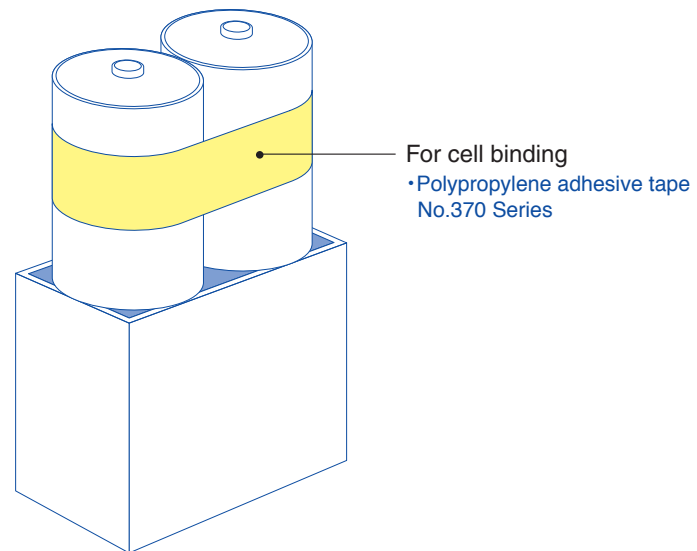
Aluminum electrolytic capacitor



Square secondary battery

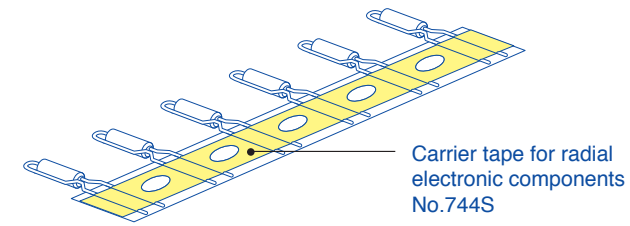


Battery package

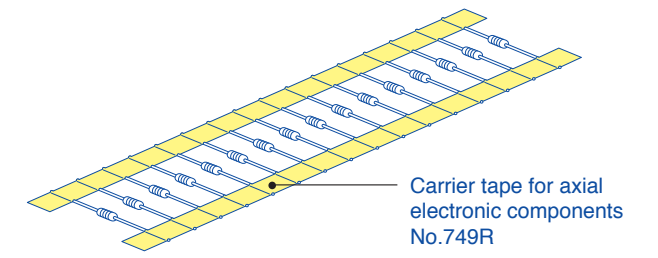


Process materials

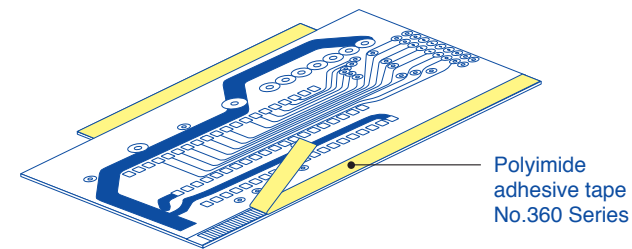
Radial taping



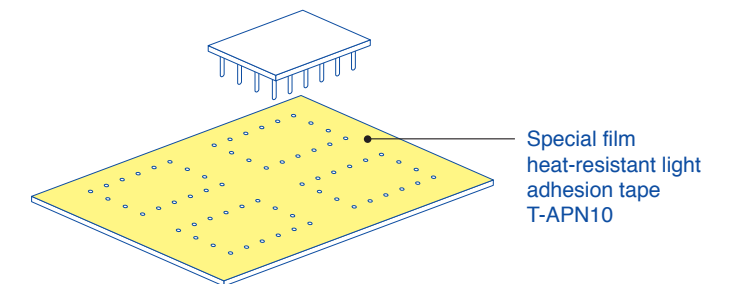
Axial taping



PCB masking



Masking for green sheets



Products list

Product	Product No.	Thickness (mm)	Standard length (m)	Color	Page
Polyimide adhesive tape	No.360UL	0.060, 0.090	20	Light Amber Brown	2
	No.360A	0.053, 0.080	20	Light Amber Brown	2
Fluoroplastic adhesive tape (NITOFロン®)	No.903UL	0.08 ~ 0.23	10	—	3
	No.923UT	0.04	10	—	3
	No.903-T	0.08 ~ 0.23	5, 10	—	3
Glass-cloth adhesive tape	No.185	0.170	20	White	4
	No.188UL	0.180	33	White	4
	ST-HG-T	0.19	20	White	4
Nomex adhesive tape	No.380	0.11, 0.13	50	White	5
	No.386UL	0.120, 0.140	50	White	5
PPS adhesive tape	No.320A#16	0.035	20	Cream	5
	No.320A	0.053	20	Cream	5
Polypropylene adhesive tape	No.3703F	0.055	400, 4000, 8000	Transparent	6
	No.3703DF	0.055	200, 400	Light green	6
Special film heat-resistant light adhesion tape/sheet	T-APN10	0.020	200	Transparent	6
Polyester adhesive tape	No.31B	0.053, 0.080	30, 50	Transparent	7
	No.31C	0.053, 0.080	30, 50	Various colors	7
	No.31RH	0.053	30, 50	Various colors	7
	No.31D	0.053, 0.080	30, 50	Transparent	7
	No.31E	0.053	30, 50	Various colors	7
	No.315	0.060, 0.085	20, 50	Transparent, Yellow	7
	No.336	0.060, 0.080	33	Transparent, Yellow	8
	No.337	0.100	33	Blue	8
Flame-retardant polyester adhesive tape	NO3161FR1	0.054	30, 50	Various colors	8
	NO3161FR2	0.080	30, 50	Milky	8
Composite adhesive tape	No.340	0.24	50	White, Blue	9
	No.341F	0.42	50, 200	White, Yellow, Red, Blue	9
	No.341S	0.25	100	White, Yellow, Blue	9
	No.343B	0.42	30	White	9
	No.345EG	0.25	14	Gray	9

Product	Product No.	Thickness (mm)	Standard length (m)	Color	Page
Ultrahigh-molecular-weight polyethylene adhesive tape	No.443	0.27, 0.30, 0.37, 0.42, 0.47	10, 30, 50	White, Black	10
		0.57, 0.67	10, 30	White, Black	10
	No.4430	0.16, 0.23, 0.28	10, 30, 50	White, Black	10
Self-fusing tape	No.11	0.5	10	Black	10
	No.15	0.5	10	Black	10
	No.66	0.5	15	Red brown	10
	No.660	0.22	15	Red brown	10
Acetate adhesive tape	No.5	0.23	30	White, Black	11
	No.5EG	0.23	20	Black	11
	No.151UL	0.23	50	Black	11
	No.153	0.21	50	White, Black	11
	No.155	0.23	30	Black	11
	No.156A	0.25	30	White, Black	11
Cotton adhesive tape	No.7A	0.22	30	White	12
Vinyl adhesive tape	No.223S	0.19	20	Various colors	12
Non-halogen adhesive tape	No.2400	0.11	25	Black	13
	No.2450	0.11	25	12 colors	13
Paper adhesive tape for electronic parts processes	No.7464	0.150	500, 3000	Cream	13
Paper adhesive tape for shipping radial electronic parts	No.744S	0.180	500, 1000, 3000	Cream	14
Paper adhesive tape for shipping axial electronic parts	No.749R	0.140	500, 1000, 3000	Yellow, Blue, White	14
Polyester nonwoven fabric thermosetting bonding tape/sheet	P-EF11	0.3, 0.5	20	White	15
	P-EF50	0.18	30	Milky	15
Backing-less thermoplastic bonding tape/sheet	FB-ML4	0.05, 0.07	50	Semi-transparent	16
	FB-ML80	0.05	100	Semi-transparent	16

Product Information Contacts

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

Double-coated adhesive tapes

TCAT Tape Customer Assistant Team

Supported Products : High adhesion double-coated tapes, Double-coated adhesive tapes, Metal foil tapes

Supported Sample Sizes : A4, specified width (small roll)

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

E-mail: tcata@nitto.co.jp



Foam sealing materials and others

TFOX Tape and Foam Expert Support Center

Supported 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



Surface protective materials

TDOC Technical Dock (Doctor)

Supported Products : Surface protective films, Masking tapes 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



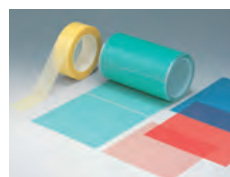
Tapes for electrical & electronic equipment

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

Engineering plastic products

EYES Engineering Plastics Your Enhancement System

Supported Products : Fluoroplastic products (sheets, tapes, filters), Ultra-high molecular weight polyethylene products (Low-friction tape, Air permeability sheets)

Supported Sample Sizes : A4, etc.

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

E-mail: eyes@nitto.co.jp



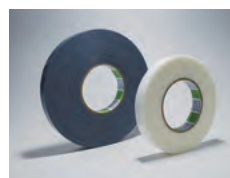
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1-8-5, Hatara-cho, Fukaya, Saitama 366-8521

NITTO SHINKO products

Nitto Shinko Corporation Technical Support Center (TSC-NSK)

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Hours: 9:00 - 17:30 (excluding Saturdays, Sundays, public holidays, year-end and new year period, and summer holidays)
110-1-1, Maruokacho Funayose, Sakai-shi, Fukui, 910-0381

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