Nitto
Innovation for Customers

TAPES FOR ELECTRICAL & ELECTRONIC EQUIPMENT



Nitto
Innovation for Customers

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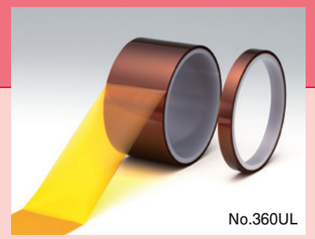
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Polyimide adhesive tape

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

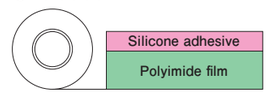
- Offers superior electrical insulation properties.
- Offers superior dimension stability.
- Offers superior heat resistance.
- Available in long lengths.

Applications

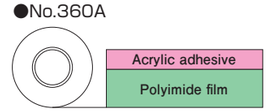
- Heat-resistant masking.
- Heat-resistant electrical insulation.

Structure

●No.360UL



●No.360A



Line-up

Product No.	Thickness (mm)		Standard length (m)	Color
	Total	(Backing)		
No.360UL	0.055	(0.025)	20	Light Amber Brown
	0.080	(0.050)		
No.360A	0.053	(0.025)	20	Light Amber Brown

Properties

Product No.	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
No.360UL	4.1	115	44	8.0	1.00
	4.8	250	55	11.0	
No.360A	4.3	145	65	7.5	1.00

● 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 polytetratfluoroethylene (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

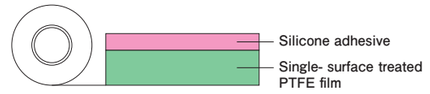
- UL 510 Flame Retardant certified.
- Applied in the same manner as ordinary tape;realizes smooth wrapping, bundling and sealing.
- Offers superior flame retardancy.
- Uses class H insulation materials.
- Environment-friendly product conforms to Notification No.20 of the Japanese Ministry of Health,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

Applications

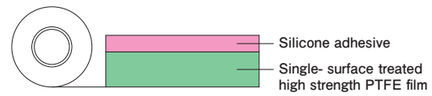
- Heat-resistant electrical insulation.
- Heat seals. ●Sliding material.
- Prevents tacky material from adhering.

Structure

●No.903UL



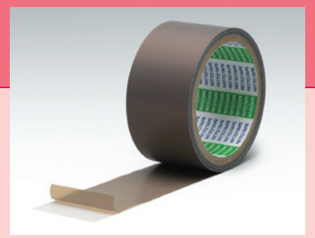
●No.923UT



Line-up

Product No.	Thickness (mm)	Width (mm)	Standard length (m)
No.903UL	0.08, 0.13, 0.18, 0.23	10, 13, 15, 19, 20, 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



Fluoroplastic adhesive tape

NITOFLON® No.903-T

Fluoroplastic tape with release liner that facilitates work.

NITOFLON No.903-T is a polytetratfluoroethylene 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.

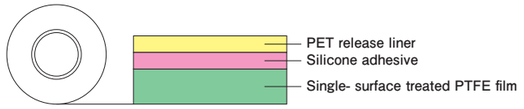
Features

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

Applications

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

Structure



Line-up

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

Glass-cloth adhesive tape

No.188UL

Super strong electrical insulation tape that offers reliable adherence.

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.

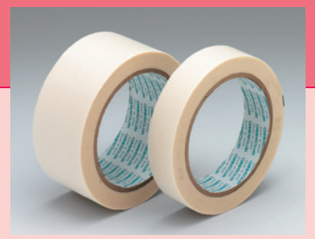
Structure



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.188UL	0.18	(0.13)	33	White	6.7	600	7	3.5	0.96

- UL 510 Flame Retardant E34833



Glass-cloth adhesive tape

ST-HG-T(R)

Flame-retardant tape with superior heat resistance and adherence.

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

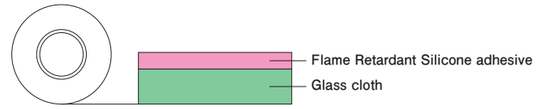
Features

- 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.

Structure



Properties

Product No.	Thickness (mm)		Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Breakdown voltage (kV)
	Total	(Backing)					
ST-HG-T(R)	0.19	(0.12)	20	White	6.5	690	4.5

- UL 510 Flame Retardant E64170



Nomex adhesive tape

No.380 / No.386UL 2MIL / 3MIL

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

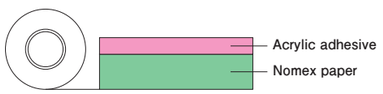
- Offers superior electrical insulation.
- Offers superior flame retardancy.
- Offers superior heat resistance.
- Available in long lengths (up to 300m).

Applications

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

Structure

- No.380



- No.386UL 2MIL / 3MIL



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	0.11	(0.050)	50	White	8.0	80	10	3.0	0.95 or more
	0.13	(0.075)			7.5	140	10	3.5	0.95 or more
No.386UL 2MIL	0.12	(0.050)	50	White	6.5	80	10	3.0	0.9 or more
No.386UL 3MIL	0.14	(0.075)			6.5	140	10	3.5	

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


No.320A

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

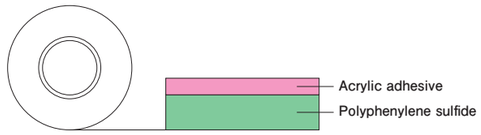
Features

- 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	


No.3703F

Polypropylene adhesive tape

No.3703F

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.

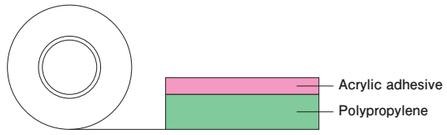
Features

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

Applications

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

Structure



Properties

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


No.31 Series

Polyester adhesive tape

No.31 Series / No.315

Used for outer/interlaminar insulation of transformers and coils.

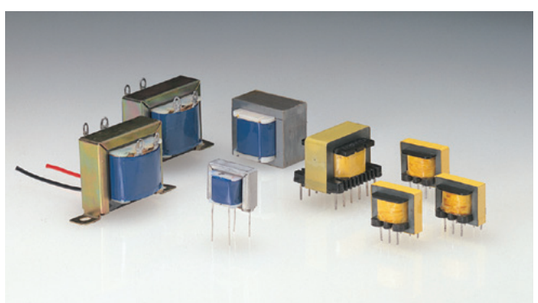
Tape developed for outer/interlaminar insulation of transformers and coils. Nitto has a wide lineup of backing thicknesses and adhesive types/colors; the tapes can be used for various applications. Nitto is also proud of its abundant experience with tapes for electronic equipment insulation.

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.

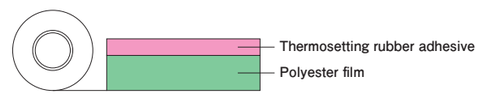


Structure

- No.31B
- No.31C

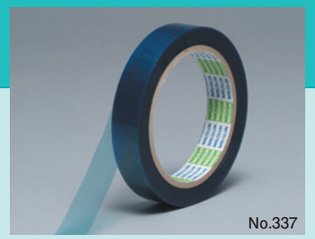


- No.315



Properties

Product No.	Thickness (mm)		Standard length (m) 【Core diameter (mm)】	Color	Peel adhesion (N/19mm)	Tensile strength (N/19mm)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
	Total	(Backing)							
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.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	


No.337

Polyester adhesive tape

No.336 / No.337

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

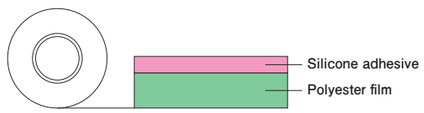
Thin backing and thick adhesive layer makes the tape ideal for heat-resistant plating masking. Almost no plating solution leaks in so it exhibits high reliability.

Features

- Film is thin and offers excellent flexibility.
- Has thick adhesive layer so almost no plating solution leaks in.

※Resistability of plating solution. Backing will be changed weaker when it soaked in heated alkali solution by long hours using.

Structure

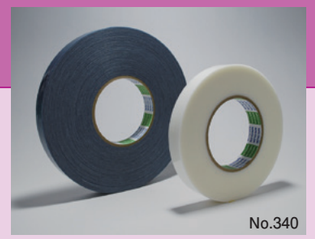


Applications

- Heat-resistant masking.

Properties

Product No.	Thickness (mm)		Standard length (m)	Color	Peel adhesion (N/19mm)	Tensile strength (MPa)	Elongation (%)	Breakdown voltage (kV)	Electrolytic corrosion factor
	Total	(Backing)							
No.336	0.055	(0.025)	33	Transparent, Blue	7.3	146	80	5.4	1.00
	0.080	(0.050)			9.3	170	100	7.5	
No.337	0.095	(0.025)	33	Blue	8.6	144	80	5.5	


No.340

Composite adhesive tape

No.340 / No.341F / No.343B

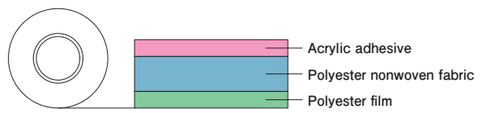
High-electrical insulation and tracking-resistant properties that contribute to increasing the compactness of coils and transformers.

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.

Features

- Adheres well to coils, etc., and offers superior flexibility.
- Heating increases adhesive strength.
- Offers superior electrical insulation.
- Complies with PLC-0 of UL-746A (CTI: 600U or more).
- Conforms to CTI grade I of IEC-950.

Structure



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	0.24	(0.18)	50	White, Blue	7.5	170	60	5.5	0.98 or more
No.341F	0.42	(0.35)	50,200	White	6.0	120	60	5.5	0.98 or more
No.343B	0.42	(0.37)	30	White	17.0	205	33	8.9	0.98 or more

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



Composite adhesive tape

No.345EG

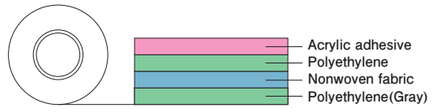
Low-VOC adhesive tape with superior hand-cuttability and sound deadening qualities.

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

Structure



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	0.25	(0.21)	14	Gray	6.24	83.4	12.4



Vinyl adhesive tape

No.223S

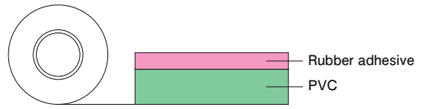
A standard tape meeting the UL standards.

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.

Structure



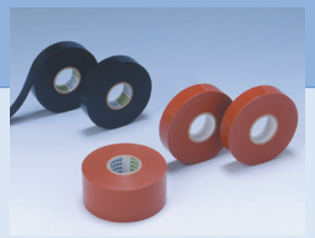
Applications

- 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)
No.223S	0.19	20	White, Gray, Yellow, Red, Green, Blue, Black	5.64	73.5	280	11.22

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



Self-fusing tape

No.11 / No.15 / No.66 / No.660

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

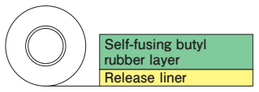
No.11,15 are butyl rubber self-fusing tapes that do not cause metal corrosion. No.66, 660 are silicone rubber type self-fusing tapes that are heat and weather resistant.

Features

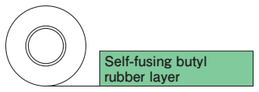
- Excellent in the electrical property, ozone resistance and weather resistance
- Do not cause metal corrosion (No.11,15)
- Excellent heat resistance (No.66, 660)

Structure

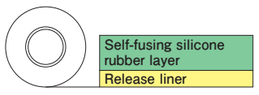
- No.11



- No.15



- No.66 / No.660

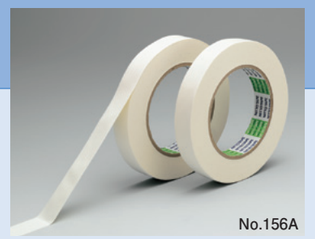


Applications

- 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



Acetate adhesive tape

No.5 / No.5EG / No.153 / No.156A

Acetate cloth adhesive tape offers superior heat resistance and flexibility.

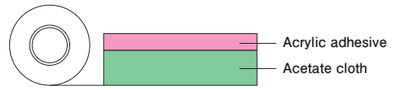
Electrical insulation tape consists of acetate cloth coated with acrylic or rubber adhesive. No.156A is UL-certified flame-retardant adhesive tape, and is used insulating electrical and electronic equipment, protective insulation of wire harnesses and binding.

Features

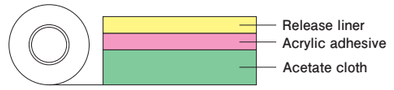
- Easy to work with.
- Superior flexibility makes it ideal for binding uneven electrical wiring.
- Offers superior corrosion resistance.
- Environment-friendly tape of low VOC.(No.5EG)
- Low VOC strong adhesive tape.(No.153)

Structure

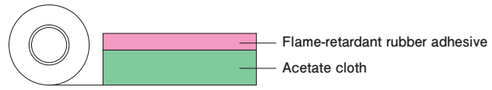
- No.5 / No.5EG



- No.153



- No.156A



Applications

- Outer insulation and termination of coils.

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.153	0.21	(0.18)	50	White, Black	10.0	120	20	3.0
No.156A	0.25	(0.18)	30	White, Black	8.0	130	20	2.0

- No.156A (UL 510 Flame Retardant E34833)



Polyester nonwoven fabric thermosetting bonding tape/sheet

P-EF50

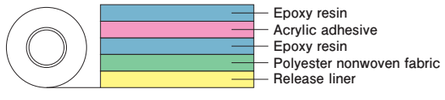
Thermosetting bonding sheets with superior sealing properties that offer easy taping.

P-EF50 is a thermosetting bonding sheet using polyester nonwoven fabric impregnated with epoxy resin.

Features

- Long shelf life up to 3 months at a temperature under 20℃.
- The surface adhesive layer provides increased workability.
- Their sufficient flexibility provides superior adherence to substrates.

Structure



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/cm²)	Bonding condition (approximate values)		Storage condition
					Temperature (℃)	Time (min.)	
P-EF50	0.18	30	Milky	1400	120-180	60-30	Sealed and stored at 20℃ or less

*Excluding the release liner



Backing-less thermoplastic bonding tape/sheet

FB-ML4-50S(K) / FB-ML80

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

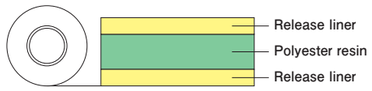
FB-M Series is a thermoplastic bonding tape with superior and quick bonding properties for various materials, and is storable at room temperature.

Features

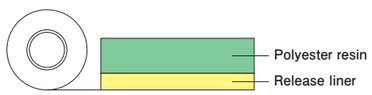
- Bonds in a few seconds.
- ML4 offers superior bond strength for PET, PI, PC, ABS, PPOand PVC; PI, PC, ABS, and PVC; ML80 for PVC, PET-G, and epoxy glass.
- Long shelf life up to 6 months at a room temperature.

Structure

●FB-ML4-50S(K)



●FB-ML80



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

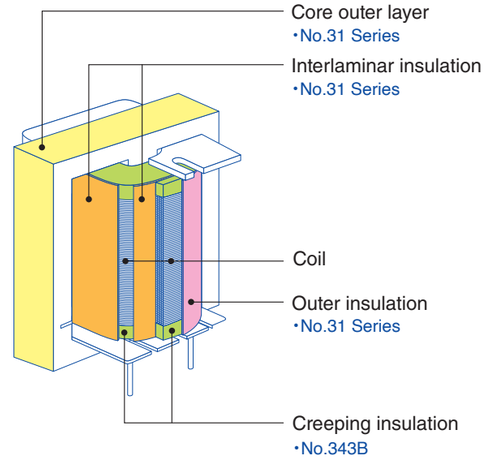
Product No.	Thickness* (mm)	Standard length (m)	Color	Shear strength (N/cm²)	Bonding condition (approximate values)		Storage condition
					Temperature (℃)	Time (sec.)	
FB-ML4-50S(K)	0.05	50	Semi-transparent	1600	170-	4-	Room temperature
FB-ML80	0.05	100	Semi-transparent	1600	120-	2-	Room temperature

*Excluding the release liner

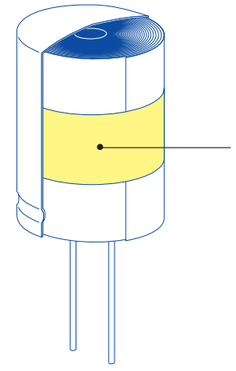
Applications

Structural materials

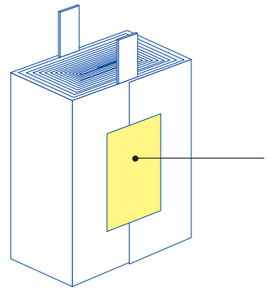
Power switching transformers



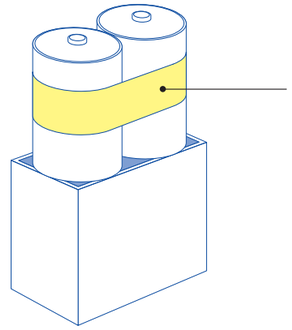
Aluminum electrolytic capacitor



Square secondary battery

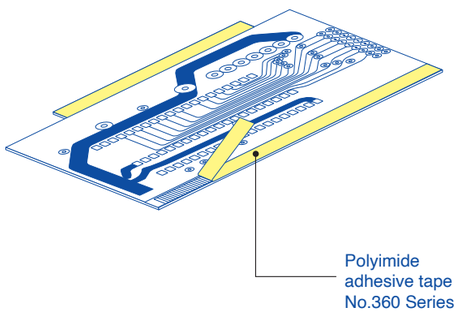


Battery package



Process materials

PCB masking



Products list

Product	Product No.	Thickness (mm)	Standard length (m)	Color	Page
Polyimide adhesive tape	No.360UL	0.055, 0.080	20	Light Amber Brown	2
	No.360A	0.053	20	Light Amber Brown	2
Fluoroplastic adhesive tape (NITOFLON®)	No.903UL	0.08, 0.13, 0.18, 0.23	10	—	2
	No.923UT	0.04	5,10	—	2
	No.903-T	0.08, 0.13, 0.18, 0.23	10	—	3
Glass-cloth adhesive tape	No.188UL	0.18	33	White	3
	ST-HG-T(R)	0.19	20	White	4
Nomex adhesive tape	No.380	0.11, 0.13	50	White	4
	No.386UL 2MIL / 3MIL	0.12, 0.14	50	White	4
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	5
Polyester adhesive tape	No.31B	0.053, 0.080	50	Transparent	6
	No.31C	0.053, 0.080	50	Various colors	6
	No.315	0.060, 0.085	20, 50	Transparent, Yellow	6
	No.336	0.055, 0.080	33	Transparent, Yellow	7
	No.337	0.095	33	Blue	7
Composite adhesive tape	No.340	0.24	50	White, Blue	8
	No.341F	0.42	50, 200	White	8
	No.343B	0.42	30	White	8
	No.345EG	0.25	14	Gray	8

Product	Product No.	Thickness (mm)	Standard length (m)	Color	Page
Vinyl adhesive tape	No.223S	0.19	20	Various colors	9
Self-fusing tape	No.11	0.5	10	Black	9
	No.15	0.5	10	Black	9
	No.66	0.5	15	Red brown	9
	No.660	0.22	15	Red brown	9
Acetate adhesive tape	No.5	0.23	30	White, Black	10
	No.5EG	0.23	20	Black	10
	No.153	0.21	50	White, Black	10
	No.156A	0.25	30	White, Black	10
Polyester nonwoven fabric thermosetting bonding tape/sheet	P-EF50	0.18	30	Milky	11
Backing-less thermoplastic bonding tape/sheet	FB-ML4-50S(K)	0.05	50	Semi-transparent	11
	FB-ML80	0.05	100	Semi-transparent	11