Nitto

Innovation for Customers

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Nitto

Innovation for Customers

FLUOROPLASTIC PRODUCTS/ ULTRAHIGH-MOLECULAR-WEIGHT POLYETHYLENE PRODUCTS

NITOFLON®

NITOFLON®

NITOFLON® is the registered trade name of Nitto's fluoroplastic products.

Fluoroplastic have many advantages including excellent chemical resistance, heat resistance and electrical properties. Until recently, however, these characteristics have made fluoroplastics difficult to process and restricted its applications. Nitto solved these problems by applying its own processing technology such as surface treatment techniques, precision engineering technology, and composite technology with different materials.

Nitto's technologies have opened up a host of new possibilities for fluoroplastics, including meeting UL anti-flammability standards in the United States.

NITOFLON is now used as a material in an extensive range of applications from electronics to household products.

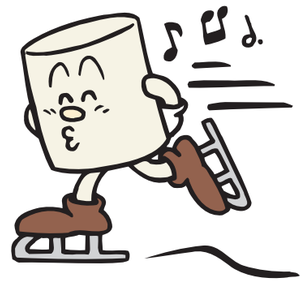
Contents

Features of Fluoroplastics

Excellent Heat Resistance

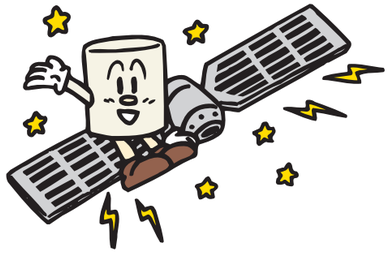
These materials offer outstanding heat and cold resistance. Continuous service temperature ranges from –100°C to +260°C with a melting point of 327°C.

Best Sliding Properties among All Solid Materials



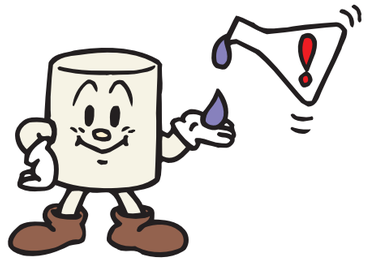
Fluoroplastics have the lowest friction coefficient among all solid matter, giving them excellent self-lubrication properties.

Outstanding Electrical Insulation Properties



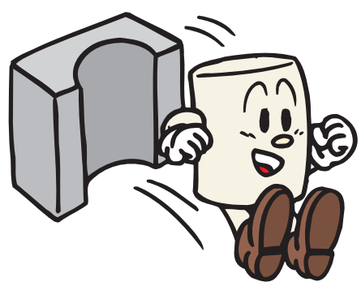
Fluoroplastics have the lowest dielectric constant and dissipation factors among all solid materials. They are stable in a wide range of frequencies and external environments, making them ideal as high-frequency insulation materials.

Excellent/Superior Chemical Resistance



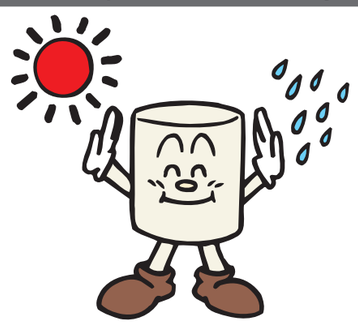
The stable molecular structure of NITOFLON means that fluoroplastics are unaffected by virtually all industrial chemicals and solvents.

Non-Adhesion Property



Adhesives do not stick easily to fluoroplastics, making them ideal for use in mold release applications.

Superior Weatherability



Fluoroplastics are virtually unaffected by visible and UV light as well as humidity, making them suitable for long-term outdoor use.

General Properties of Fluoroplastics and Ultrahigh-Molecular-Weight Polyethylene

Resin properties		PTFE	FEP	ETFE	PFA	Ultrahigh-molecular-weight polyethylene
Heat-resistance (normal temperature °C)		260	200	150	260	80
Electrical properties		◎	◎	◎	◎	○
Flame resistance (O.I. %)		95<	95<	30	95<	18
Mechanical properties		△	○	○	△	◎
Low friction		◎	○	△	○	◎
Chemical resistance	Acid	◎	◎	◎	◎	◎
	Alkali	◎	◎	◎	◎	◎
	Solvent	◎	◎	◎	◎	◎
Non-adhesiveness		◎	◎	○	◎	◎
Weather resistance		◎	◎	◎	◎	△
Transparency		△	◎	○	◎	△
Formability		△	○	◎	○	△
Specific gravity		2.17	2.15	1.73	2.15	0.94

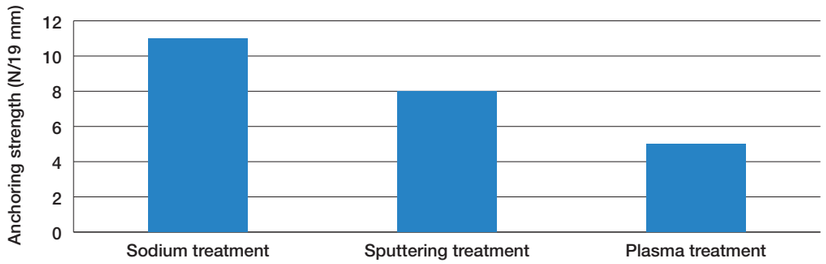
◎= Conforming (excellent) ○ = Good △ = Defective

Surface Treatment Method

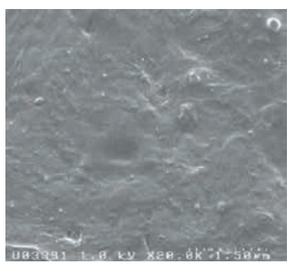
In general, PTFE sheds water, having low wettability. So it requires surface treatment that enhances its wettability in order to undergo adhesive processing or glueing processing. Nitto provides products such as adhesive tape to customers utilizing two methods: one is chemical treatment using sodium and the other is electrical sputtering treatment by vacuum discharge.

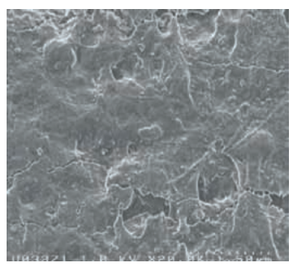
It is recommended to use sputtering treated products for the usage in the surface treatment of melting type fluoroplastic film or for the usage in outdoor-exposure.

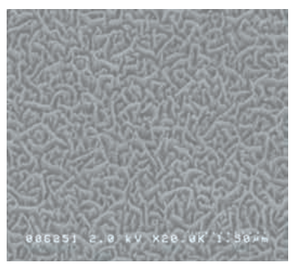
Anchoring Strength at Each Treatment (PTFE Film)



Comparison of Film Surface by SEM Images

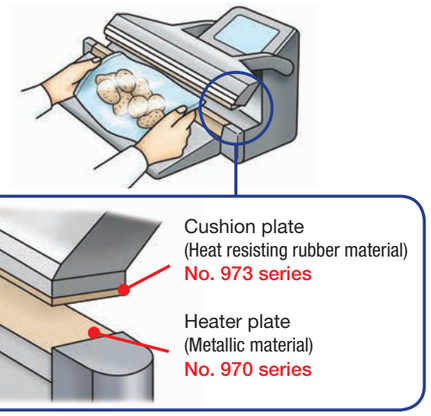

Untreated


Surface chemical treatment by sodium

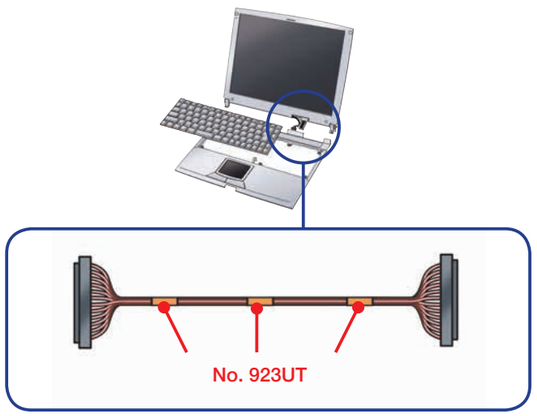

Surface raising treatment by sputtering treatment discharge

Major Applications of NITOFLON®

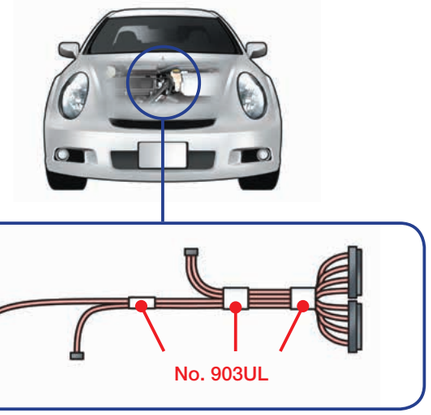
Heel Sealing Machine



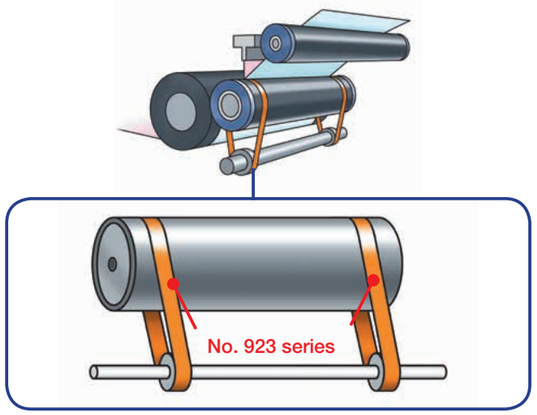
Wire Binding & Electrical Insulation inside Notebook PCs



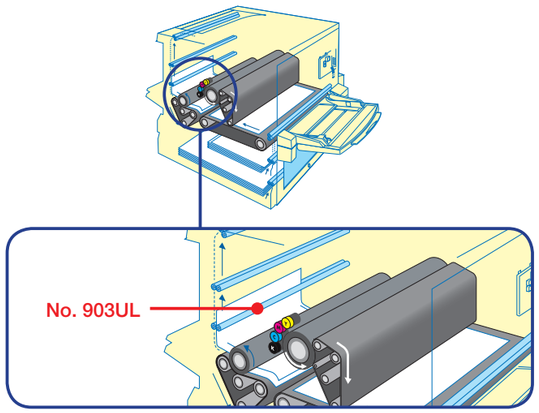
Binding & Electrical Insulation of Heat-Resistance Cables around Car Engine



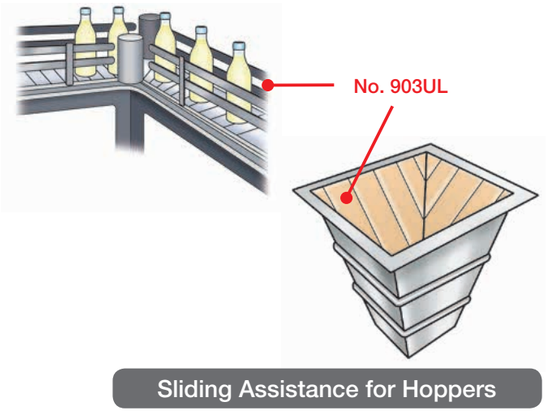
Protection of Pressure Bonding Roll for Extruding Laminators



Sliding Assistance at Paper-Feeding Blade for Printers (LBP)



Sliding Assistance for Conveyor Guides



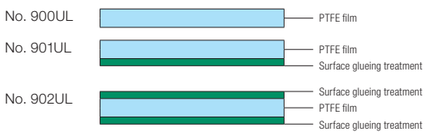
Sliding Assistance for Hoppers

NITOFLON® Films No. 900 Series

Features

- Outstanding chemical resistance to acids, alkalis, etc.
- Offers high insulating performance and can be used in a wide temperature range (–100°C to 260°C).
- Has an extremely low friction coefficient and strong non-adhesion (separating) property.

Structure



Applications

- Thrust washers
- Insulation for motor and transformer coils
- FRP and CFRP molding release agent
- Elastomer composites
- Compression release agent for anisotropically conductive films (ACF)
- Chain tensioners
- Elevator sliding guide shoes

Properties

Item		Unit	Characteristic values							
			No.900UL/No.901UL/No.902UL							
Thickness		mm	0.05	0.08	0.1	0.13	0.18	0.3	0.5	1.0
Tensile strength		MPa	50	50	50	50	50	50	45	40
Elongation		%	300	300	310	320	330	330	370	400
Dielectric breakdown voltage		kV	6.0	8.3	9.6	11.6	14.1	19.5	26.7	37.7
Dielectric constant (1MHz)		—	2.1							
Volume resistivity		Ω · cm	1×10^{17} ≤							
Arc resistance		sec	180 ≤							
Water absorption		%	0							
Heat resistance (weight loss upon heating)		%	0							
Chemical resistance	Nitric acid (60%)	%	0							
	Sodium hydroxide (40%)	%	0							
	Acetone	%	0							
Specific gravity		—	2.1 ~ 2.3							
Kinematic friction		—	0.1							
Flame resistance		—	VTM-0 (0.02 ~ 0.24mmt) / V-0 (0.25mmt ≤)							
Melting point		°C	327							

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

NITOFLON® Films No. 900 Series

Size

Product No.	Type	Thickness (mm)	Width (mm)	Length (m)
No. 900UL	Untreated	0.03	10 13 19 25 30 38 40 50 75 100 150 200 250 300 500	10·30
		0.038	100 150 200 250 300 500	10
			10 13 19 25 30 38 40 50 75	30
		0.05	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75	30
		0.08	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30
		0.1	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30
		0.13	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30
		0.18	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30
		0.2	100 150 200 250 300 500 600 1,000	10
			5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30
		0.25	100 150 200 250 300 500 600 1,000	10·30
		0.3		
		0.4		
		0.5		
		0.7		10
		0.8	300 500 600	
		1.0		
		1.5	100 200 300	
No. 901UL	Single surface chemically etched	0.05	100 150 200 250 300 500	10·30
		0.08		
		0.1		
		0.13		
		0.18		
		0.2		
		0.3		10
		0.4		
		0.5		
		0.8	100 150 200 250 300 500	
		1.0		
No. 901W-UL	Single surface electrically etched	0.05	250 500	100
		0.1		
No. 902UL	Double surface treated	0.05	10 13 19 25 30 38 40 50 100 150 200 250 300 500	10
		0.08		
		0.1		
		0.13		
		0.18		
		0.2		
		0.3	300 500	
		0.4		
		0.5		
		0.8		

◆For longer items, other sizes or filler-added items, please consult a Nitto representative.

NITOFLON® High-Strength Films No. 920 Series

Features

- Higher in tensile strength and insulating performance compared to NITOFLON.
- The minimum product thickness is as small as 0.02 mm, contributing to the miniaturization of parts.
- Has strong non-adhesion property and extremely low friction coefficient.

Applications

- Insulation for motor and transformer coils
- Insulation of heat resistance wires
- Insulation of capacitors

Structure

No. 920UL — Special reinforcement film (PTFE)

Properties

Item		Unit	Characteristic value	
			No. 920UL	
Thickness		mm	0.02	0.05
Tensile strength	Longitudinal	MPa	77	80
Elongation	Longitudinal	%	111	120
Dielectric breakdown voltage	Average	kV	5.4	11.3

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

Size

Product No.	Type	Thickness (mm)	Width (mm)	Length (m)
No. 920UL	Untreated	0.02 0.025 0.03 0.04 0.05 0.06 0.10	10 13 19 25 30 38 50 75 100 150 200 250 300	30 · 50

◆For single surface treated items, other sizes, please consult a Nitto representative.

NITOFLON® PTFE Impregnated Glass Cloth No. 970 Series

Features

- With a composite of polytetrafluoroethylene resin and high-strength glass cloth as its base material, has excellent heat resistance, chemical resistance, electrical characteristics, weather resistance, waterproof (water repellent) performance, strong non-adhesion properties and mechanical strength.

Applications

- Heat-resistant release agent for bag-making heat sealing
- Conveying belts for food processing
- Heat-resistant lubrication of fixing belts for printers
- Compression release agent for anisotropically conductive films (ACF)
- Compression release agent for solar cell backsheets

Structure

No.970-2UL — PTFE impregnated glass cloth

Properties

Item		Unit	Characteristic value								
			No. 970-2UL			No. 970-4UL			No. 9700UL		
Substrate thickness		mm	0.05	0.1	0.13	0.05	0.1	0.13	0.05	0.1	0.13
Total thickness		mm	0.07	0.12	0.17	0.08	0.13	0.18	0.08	0.13	0.18
Tensile strength	Longitudinal	N/15mm	200	400	420	200	320	340	200	300	350
	Lateral		160	370	370	160	330	340	160	300	320
Friction coefficient		—	0.08	0.08	0.1	0.08	0.08	0.1	0.08	0.08	0.1
Dielectric breakdown voltage		kV	—	—	—	1.3	1.4	1.9	1.3	1.5	1.6
Volume resistivity		Ω · cm	—	—	—	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}	10^{16}

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

Size

Product No.	Type	Substrate thickness (mm)	Total thickness (mm)	Width (mm)	Length (m)
No. 970-2UL	Standard	0.03	0.045	300 400 500 550 600 970 1,000	10
		0.05	0.07		
		0.07	0.09		
		0.1	0.12		
		0.13	0.17		
		0.18	0.22		
		0.25*	0.34		
No. 970-4UL	High-impregnated type	0.05	0.08	300 500 600 1,000	
		0.07	0.1		
		0.1	0.13		
		0.13	0.18		
		0.18	0.22		
		0.25	0.34		
No. 9700UL	High-impregnated and surface-smooth type	0.05	0.08	300 500 600 1,000	
		0.07	0.11		
		0.1	0.13		
		0.13	0.18		
		0.18	0.23		
		0.25	0.34		

◆For single surface or double surface treated films, other sizes, please consult a Nitto representative.

* For No. 970-2UL thickness 0.25 mm products, 1,000 mm width does not correspond.

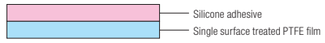
NITOFLON® Adhesive Tapes No. 903 Series

Features

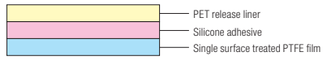
- With polytetrafluoroethylene resin film as its base material, has excellent heat resistance, chemical resistance, electrical characteristics, weather resistance, waterproof (water repellent) performance and strong non-adhesion properties.
- A silicone-based adhesive enables continuous use in a wide temperature range from – 60°C to 200°C (except No. 903SC).

Structure

No. 903UL



No. 903-T



No. 903SC

Applications

- Insulation of electric wires, cables, and coils (for Class H electrical insulation)
- Friction control in the sliding section of a mobile phone or digital camera
- Battery insulation in storage devices such as secondary batteries
- Insulation and lubrication of linear-motor-driven systems
- Heat-resistant lubrication in the paper-feeding section of a printer (jamming control)
- Solder masking (heat-resistant masking)
- Friction noise control inside automobiles or friction control in sliding sections

Properties

Item	Unit	Characteristic value								
		No. 903UL				No. 903-T				No. 903SC
Thickness	mm	0.08	0.13	0.18	0.23	0.08	0.13	0.18	0.23	0.11
Tensile strength	N/19mm	55	93	160	210	55	93	160	210	40
Adhesive strength	N/19mm	5.6	7.1	7.4	8.7	5.6	7.1	7.4	8.7	12
Unwinding force	N/19mm	4.4	5.8	7.1	8.9	—				3.5
Dielectric breakdown voltage	kV	8	11	14	15	8	11	14	15	—
Temperature range	°C	-60~200°C								0~80°C

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

Size

Product No.	Type	Total thickness (mm)	Width (mm)	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. 903-T	With PET release liner	0.08/0.13/0.18/0.23	25 50 75 100 150 200 250 500	
No. 903SC	Semiconducting adhesive tape	0.11	10 13 19 25 38 50 75 100 200 300 450	

◆For other sizes, please consult a Nitto representative.

NITOFLON® Adhesive Tape Using High-Strength Film as Substrate No. 923 Series

Features

- With polytetrafluoroethylene resin film as its base material, has excellent heat resistance, chemical resistance, electrical characteristics, weather resistance, waterproof (water repellent) performance and strong non-adhesion properties.
- Possesses high tensile strength.

Structure

No. 923S

Applications

- Wrapping of polyethylene laminated rolls (protection and adhesion prevention)
- Bundling of wires for mobile devices
- Insulation of electric wires, cables, and coils (for Class H electrical insulation)
- FRP and CFRP molding release agent

Properties

Item	Unit	Characteristic value			
		No. 923UL	No. 923S	No. 923SL	No. 923UT
Thickness	mm	0.1	0.1	0.17	0.04
Tensile strength	N/19mm	100	120	280	65
Adhesive strength	N/19mm	6.4	6.5	7.9	3.7
Unwinding force	N/19mm	5.3	2.1	7.1	—
Dielectric breakdown voltage	kV	11.2	11	19	5.3
Temperature range	°C	-60~200°C			

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

Size

Product No.	Type	Thickness (mm)	Width (mm)	Length (m)
No. 923UL	High-strength adhesive	0.1	10 13 19 25 38 50 75 100 125 150 200	10 · 33
No. 923S	Super high-strength adhesive			
No. 923SL		0.17		
No. 923UT	Ultra-thin high-strength adhesive	0.04	10 13 19 25 30 38 50 75 100 125 150 200	5 · 10

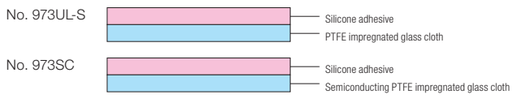
◆For other sizes, please consult a Nitto representative.

NITOFLON® Adhesive Tape Using PTFE Impregnated Glass Cloth as Substrate No. 973 Series

Features

- With a composite of polytetrafluoroethylene resin and high-strength glass cloth as its base material, has excellent heat resistance, chemical resistance, electrical characteristics, weather resistance, waterproof (water repellent) performance, strong non-adhesion properties and mechanical strength.
- A silicone-based adhesive agent enables continuous use in a wide temperature range from – 60°C to 200°C.

Structure



Applications

- Heat-resistant release agent for bag-making heat sealing
- Conveying belts for food processing
- Heat-resistant lubrication in the heated portions of a printer
- Lubrication of shooters or hoppers
- Conveying process of liquid crystal panels (No. 973SC)

Properties

Item		Unit	Characteristic value			
			No. 973UL-S	No. 973UL		No. 973SC
Thickness		mm	0.13	0.15	0.18	0.18
Tensile strength		N/19mm	240	590	530	610
Adhesive strength	25°C	N/19mm	6.8	9.0	9.7	9.9
	100°C		3.2	3.9	4.7	—
	150°C		2.2	2.6	3.0	—
Unwinding force		N/19mm	5.9	5.9	7.5	7.2
Temperature range		°C	-60~200°C			

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

Size

Product No.	Type	Thickness (mm)	Width (mm)	Length (m)
No. 973UL-S	—	0.13	10 12 13 14 15 19 20 25 30 35 38 40 50 60 70 75 80 100 150 200 250 300 350 400 450	10
No. 973UL	—	0.15		
		0.18		
No. 973SC	Semiconducting adhesive tape	0.18	10 13 19 25 38 50 75 100 200 300 450	10

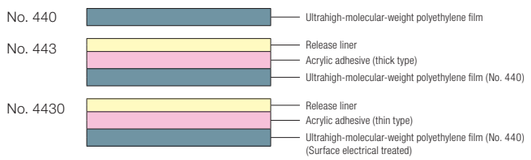
◆For other sizes, please consult a Nitto representative.

Ultrahigh-Molecular-Weight Polyethylene Adhesive Products No. 440/No. 443 Series

Features

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

Structure



Applications

- Friction control in the sliding section of a mobile phone or digital camera
- Jamming control in the paper-feeding and sliding sections of a printer
- Friction noise control inside automobiles or friction control in sliding sections
- Cable protection in cable chains and friction control in sliding sections

Properties

Item	Unit	Film		Adhesive tape			
		No. 440		No. 443		No. 4430	
		White	Black	White	Black	White	Black
Substrate thickness	mm	0.5	0.5	0.13	0.13	0.13	0.13
Total thickness	mm	0.5	0.5	0.3	0.3	0.16	0.16
Tensile strength	MPa	50	44	55.3	51.3	55.3	51.3
Elongation	%	430	410	400	380	400	380
Peeling strength	N/20 mm width	—	—	17.1	14.5	10.9	10.6
Surface resistance	Ω	10^{16}	10^{6}	10^{16}	10^{6}	10^{16}	10^{6}

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

Size

Product No.	Backing thickness (mm)	Width (mm)	Length (m)
No. 440 No. 440(Black)	0.1 0.13 0.2 0.25 0.3 0.4 0.5 0.8 1.0	300 350	10 30
No. 443 No. 443(Black)	0.1 0.13 0.2 0.25 0.3 0.4 0.5	300 350	10 30
No. 4430 No. 4430(Black)	0.13 0.2 0.25	300 350	10 30

◆For other sizes, please consult a Nitto representative.

NITOFLON® List of Sizes

Product name	Product No.		Total thickness (mm)	Width (mm)	Length (m)	Page
NITOFLON films	No. 900UL		0.03	10 13 19 25 30 38 40 50 75 100 150 200 250 300 500	10·30	5·6
			0.038	100 150 200 250 300 500	10	5·6
				10 13 19 25 30 38 40 50 75	30	5·6
			0.05	100 150 200 250 300 500 600 1,000	10	5·6
				5 6 7 8 9 10 13 19 25 30 38 40 50 75	30	5·6
			0.08, 0.1, 0.13, 0.18, 0.2	100 150 200 250 300 500 600 1,000	10	5·6
				5 6 7 8 9 10 13 19 25 30 38 40 50 75 100 150 200 250 300 500 600 1,000	30	5·6
			0.25	100 150 200 250 300 500 600 1,000	10·30	5·6
			0.3, 0.4, 0.5		10	5·6
			0.7, 0.8, 1.0	300 500 600	10	5·6
			1.5	100 200 300	10	5·6
	No. 901UL		0.05, 0.08, 0.1, 0.13, 0.18, 0.2	100 150 200 250 300 500	10·30	5·6
			0.3, 0.4, 0.5, 0.8, 1.0		10	5·6
	No. 902UL		0.05, 0.08, 0.1, 0.13, 0.18, 0.2	10 13 19 25 30 38 40 50 100 150 200 250 300 500	10	5·6
			0.3, 0.4, 0.5, 0.8	300 500	10	5·6
NITOFLON high-strength films	No. 920UL		0.02, 0.025, 0.03, 0.04, 0.05, 0.06, 0.1	10 13 19 25 30 38 50 75 100 150 200 250 300	30·50	7
NITOFLON PTFE impregnated glass cloth	No. 970-2UL		0.03, 0.05, 0.07, 0.1, 0.13, 0.18, 0.25	300 400 500 550 600 970 1,000	10	8
	No. 970-4UL		0.05, 0.07, 0.1, 0.13, 0.18, 0.25	300 500 600 1,000	10	8
	No. 9700UL		0.05, 0.07, 0.1, 0.13, 0.18, 0.25	300 500 600 1,000	10	8
NITOFLON adhesive tapes	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	9
	No. 903-T		0.08, 0.13, 0.18, 0.23	25 50 75 100 150 200 250 500	10	9
	No. 903SC		0.11	10 13 19 25 38 50 75 100 200 300 450	10	9
NITOFLON adhesive tape using high-strength film as substrate	No. 923UL		0.1	10 13 19 25 38 50 75 100 125 150 200	10·33	10
	No. 923S		0.1	10 13 19 25 38 50 75 100 125 150 200	10·33	10
	No. 923SL		0.17	10 13 19 25 38 50 75 100 125 150 200	10·33	10
	No. 923UT		0.04	10 13 19 25 30 38 50 75 100 125 150 200	5·10	10
NITOFLON adhesive tape using PTFE impregnated glass cloth as substrate	No. 973UL-S		0.13	10 12 13 14 15 19 20 25 30 35 38 40 50 60 70 75 80 100 150 200 250 300 350 400 450	10	11
	No. 973UL		0.15, 0.18	10 12 13 14 15 19 20 25 30 35 38 40 50 60 70 75 80 100 150 200 250 300 350 400 450	10	11
	No. 973SC		0.18	10 13 19 25 38 50 75 100 200 300 450	10	11
Ultrahigh-molecular-weight polyethylene adhesive products	No. 440	(White)	0.1, 0.13, 0.2, 0.25, 0.3, 0.4, 0.5, 0.8, 1.0	300 350	10·30	12
	No. 440 (Black)	(Black)	0.1, 0.13, 0.2, 0.25, 0.3, 0.4, 0.5, 0.8, 1.0	300 350	10·30	12
	No. 443	(White)	0.1, 0.13, 0.2, 0.25, 0.3, 0.4, 0.5	300 350	10·30	12
	No. 443 (Black)	(Black)	0.1, 0.13, 0.2, 0.25, 0.3, 0.4, 0.5	300 350	10·30	12
	No. 4430	(White)	0.13, 0.2, 0.25	300 350	10·30	12
	No. 4430 (Black)	(Black)	0.13, 0.2, 0.25	300 350	10·30	12

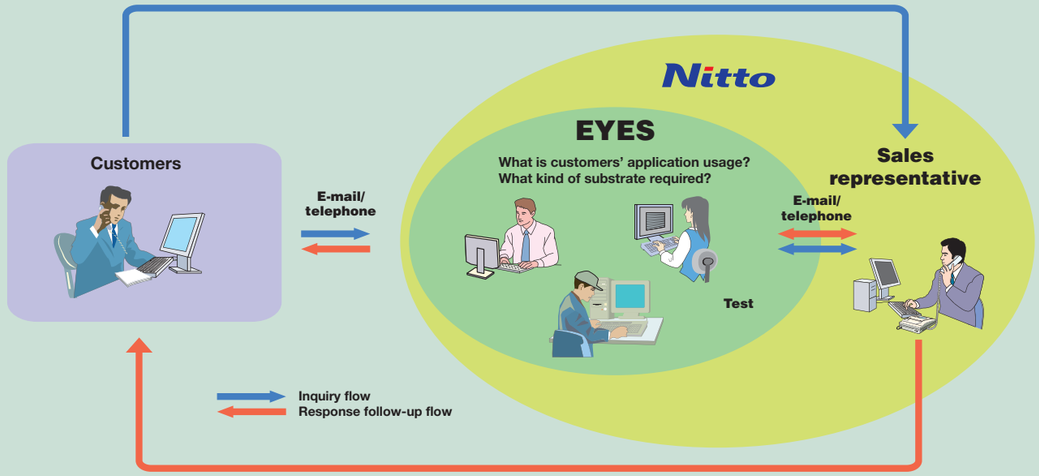
Note: The thickness of impregnated glass cloth and ultrahigh-molecular-weight polyethylene products of NITOFLON is the backing thickness.

Technical Support Center (EYES)

Engineering plastics Products Technical Support Center

EYES = Engineering plastics Your Enhancement System

Nitto will continue to advance together with customers as a technical consultant.



The registered trademark, NITOFLON®, has many features including excellent chemical resistance, high heat resistance, and superior electrical characteristics. However, since it is difficult to select the ideal model from among these multifunctional products which are used in various situations, EYES proposes products that best match each customer's particular needs.

Service Operations

- **Respond to inquires related to tape selection**
- **Shipping of evaluation samples**
- **Send brochures, data sheets and other materials**
- **Conduct a practical evaluation test service**
- **Others**

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