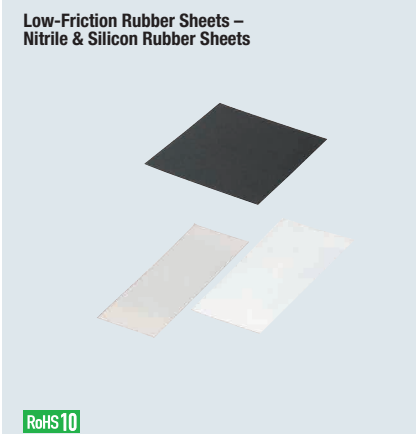


Low-Friction Rubber Sheets

Nitrile & Silicon Rubber Sheets

Resin sheets and tapes with low friction properties that are slippery to the touch. Suitable for use on portions that tend to stick to work, such as jaws.



Low-Friction Rubber Sheets – Nitrile & Silicon Rubber Sheets

RoHS 10

A Dimension Selectable Type		A / B Dimension Configurable Type		Material	Hardness	Color
No Adhesive	Adhesive	No Adhesive	Adhesive			
LRBNM	LRBNMA	LRBNMF	LRBNMFA	Low Friction Nitrile Rubber	Shore A70	Black
LRBSM	LRBSMA	LRBSMF	LRBSMFA	Low Friction Silicon Rubber	Shore A70	Light Gray
LRBAM	LRBAMA	LRBAMF	LRBAMFA	Low Friction Silicon Rubber	Shore A50	Milky White

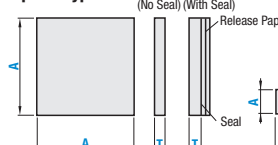
Accuracy Standards
T Dimension Tolerance ±0.2

Dimensional Tolerance of A & B
200 mm or Less ±1.0 201–300 ±1.5 301–500 ±2.0

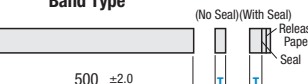
Ⓢ Adhesive thickness is 0.14–0.2 mm. Ⓢ See P.2019-2566 for rubber properties.
Ⓢ For details on the seal material and adhesive strength data, see Low Friction Nitrile Rubber (ADTR) and Low Friction Silicone Rubber (ADTS).

A Selectable Type

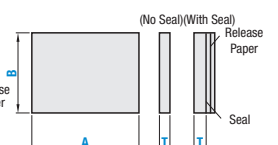
Square Type



Band Type



A / B Configurable Type



A Selectable – Square

Part Number		A Selection	
Type	T		
No Adhesive LRBNM LRBSM LRBAM	0.5	300	
		Adhesive LRBNMA LRBSMA LRBAMA	500

A Selectable – Band

Part Number		A Selection	
Type	T		
No Adhesive LRBNM Adhesive LRBNMA	0.5	3 5 10 20 30 40 50 80 100	
		No Adhesive LRBSM LRBAM Adhesive LRBSMA LRBAMA	30 40 50 80 100

A / B Configurable Type

Part Number		1 mm Increment	
Type	T	A	B
LRBNMF LRBSMF LRBAMF LRBNMFA LRBSMFA LRBAMFA	0.5	10–500	10–500

Ⓢ Please specify dimensions A and B as A ≥ B.

Part Number Example

A Dimension Standard Type
Part Number - A
LRBNM0.5 - 300
LRBAMA0.5 - 100

A / B Dimension Configurable Type
Part Number - A - B
LRBNMF0.5 - 395 - 201

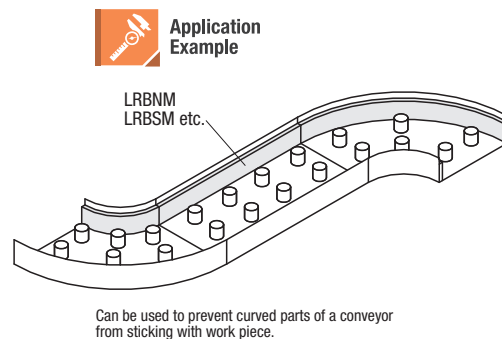
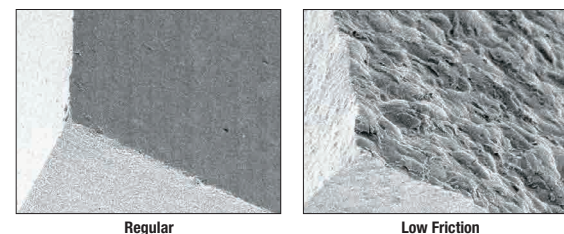
Features of Low Friction Rubber Sheets

By making only one side of rubber surface coarse, the friction is reduced without changing other properties of the material. It can be used on the surface of a sliding plate, robotic chuck etc.

Comparison of Dynamic Friction Coefficient

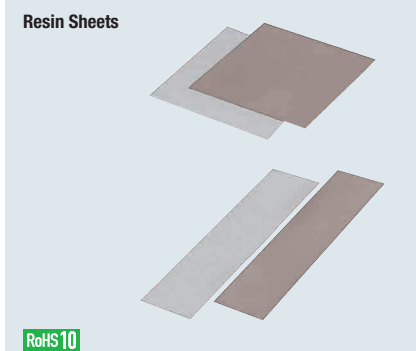
	Nitrile Rubber	Silicon Rubber (Shore A70)	Silicon Rubber (Shore A50)
Low Friction	1.22	0.48	0.3
Regular	3.32	—	—

Ⓢ Chemical resistance data P.2567.
Measuring Method: JIS K7125
* Silicon rubber is not measurable because it is self-viscous.



Resin Sheets / Fluororesin Tapes (Dust-Proof, General Purpose)

Resin sheets and tapes with low friction properties that are slippery to the touch. Suitable for enhancing the sliding of work.

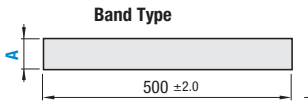


Resin Sheets

RoHS 10

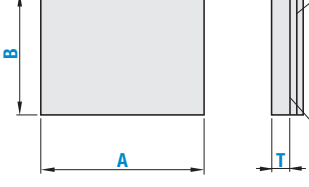
A Dimension Selectable Type	A / B Dimension Selectable Type	Material	Adhesive
PTFETT ULTT	PTFETS ULTS	Fluorine Resin Ultra High-Molecular-Weight Polyethylene	Silicon Type Acrylic

A Dimension Selectable Type



Accuracy Standards
T Dimension Tolerance ±0.02
Dimensional Tolerances of A & B
200 mm or Less ±1.0 300 ±1.5 400, 500 ±2.0

A / B Dimension Selectable Type



A Selectable – Band

Part Number		A Selection
Type	T	
PTFETT	0.23	3 5 10 20 30 40 50 80 100
ULTT	0.12	

Ⓢ L dimension is 500 mm.

Part Number Example

Part Number - A - B

PTFETT0.23 - 30
ULTT0.12 - 5
PTFETS0.23 - 100 - 100
ULTS0.12 - 500 - 100

A / B Selectable

Part Number		A Selection	B Selection	Available Types				
Type	T			10–100	101–200	201–300	301–400	401–500
PTFETS	0.23	100	100 200 300 400 500	•	•	•	•	•
		200		•	•	•	•	•
		300		•	•	•	•	•
		400		•	•	•	•	•
		500		•	•	•	•	•
ULTS	0.12	100	•	•	•	•	•	
		200	•	•	•	•	•	
		300	•	•	•	•	•	
		400	•	•	•	•	•	
		500	•	•	•	•	•	

Characteristics of Fluororesin and Ultra High-Molecular-Weight Polyethylene

Fluorine Resin
Low friction coefficient, and excellent chemical resistance and heat resistance.

Ultra High-Molecular-Weight Polyethylene
Although its friction coefficient and heat resistance is inferior to that of fluororesin, the price is relatively cheap, and it is excellent in durability.


Comparison of Dynamic Friction Coefficient

Fluorine Resin	0.08
Ultra High-Molecular-Weight Polyethylene	0.14
Nitrile Rubber	3.32

Ⓢ JIS K 7125

Characteristic Values

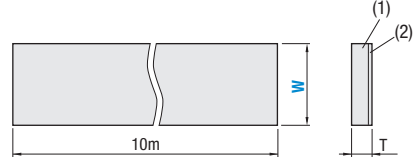
Material	Pull Force (N/25 mm Width)	Tensile Strength (N/25 mm Width)	Elongation %	Heat °C	Chemical Resistance					
					Oil	Water	Acid	Alkali	Ether	Ketone
Fluorine Resin	12	184	350	180	Excellent	Excellent	Excellent	Excellent	Good	Good
Ultra High-Molecular-Weight Polyethylene	10	93	300	100	Good	Excellent	Good	Excellent	Good	Good



Fluororesin Tapes (Dust-proof, General Purpose)

RoHS 10

PTFET



10m

	Material
(1)	Fluororesin Film
(2)	Adhesives (Silicon Type)

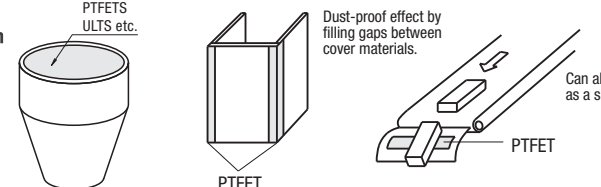
Ⓢ For Ultra High-Molecular-Weight Polyethylene, refer to P.1205 Slide Tapes (NLTP).

Part Number		W (mm)	T (mm)	(1) Fluorine Film Thickness	Adhesive Strength (N/25 mm Wide)	Tensile Strength (N/25 mm Wide)	Elongation %	Dielectric Breakdown KV
Type	No.							
PTFET	1	13	0.08	0.05	6.13	49.0	200	4.5
	2							
	3							
	4							

Part Number Example Part Number - A
PTFET2 - 13

Application Example

Can be used inside hoppers etc.



PTFETS
ULTS etc.

PTFET

Dust-proof effect by filling gaps between cover materials.

Can also be used as a skid material.