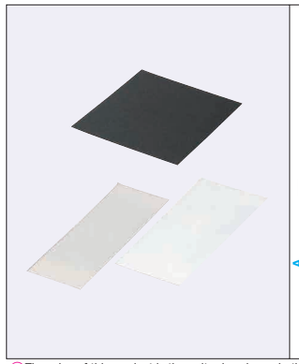
Low Friction Rubber Sheets

Nitrile Rubber Sheets, Silicon Rubber Sheets

■Rubber sheets with high sliding property and are slippery to the touch. Suitable for use on portions that tend to stick to workpieces such as jaws.



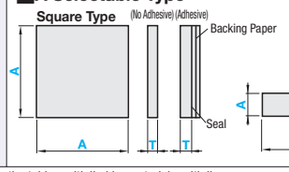
A Selectable Type		A, B Configurable Type		Material	Hardness	Color
No Adhesive	Adhesive	No Adhesive	Adhesive			
LRBNM	LRBNMA	LRBNMF	LRBNMFA	Low Friction Nitrile Rubber	Shore A70	Black
LRBSM	LRBSMA	LRBSMF	LRBSMFA	Low Friction Silicon Rubber	Shore A70	Light Gray
LRBAM	LRBAMA	LRBAMF	LRBAMFA	Low Friction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

Adhesive thickness is 0.14 ~ 0.2mm. See P. 2-391-2014 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).

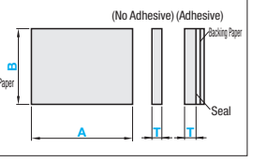
■Accuracy Standards
- T Dimension Tolerance ±0.2
- Dimensional Tolerances of A and B

200mm or Less	201~300	301~500
±1.0	±1.5	±2.0

■A Selectable Type



■A, B Configurable Type



The price of this product is the unit price shown in the table multiplied by material multiplier.

(Ex.) Part Number - A - B >> (Unit Price) x (Material Multiplier) = Standard Type Unit Price
LRBSMFA0.5 - 300 - 200

■A Selectable - Square

Part Number		A Selection	Unit Price	
Type	T		LRBNM LRBNMA	LRBSM, LRBSMA LRBAM, LRBAMA
No Adhesive LRBNM (x1.0) LRBSM (x1.0) LRBAM (x1.0)	0.5	300		
Adhesive LRBNMA (x1.2) LRBSMA (x1.2) LRBAMA (x1.2)	0.5	500		

■A Selectable - Band

Part Number		A Selection	Unit Price A								
Type	T		3	5	10	20	30	40	50	80	100
No Adhesive LRBNM (x1.0) Adhesive LRBNMA (x1.2)	0.5	3 5 10 20 30 40 50 80 100									
No Adhesive LRBSM (x1.0) LRBAM (x1.0) Adhesive LRBSMA (x1.2) LRBAMA (x1.2)	0.5	3 5 10 20 30 40 50 80 100									

■A, B Configurable Type

Part Number		1mm 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.

■A, B Configurable Type

Part Number		A	Unit Price B				
Type	T		10~100	101~200	201~300	301~400	401~500
No Adhesive LRBNMF (x1.0) Adhesive LRBNMFA (x1.2)	0.5	10~100		-	-	-	-
		101~200			-	-	-
		201~300				-	-
		301~400					-
		401~500					
No Adhesive LRBSMF (x1.0) LRBAMF (x1.0) Adhesive LRBSMFA (x1.2) LRBAMFA (x1.2)	0.5	10~100		-	-	-	-
		101~200			-	-	-
		201~300				-	-
		301~400					-
		401~500					

Ordering Example

■A Selectable Type

Part Number	-	A
LRBNM0.5	-	300
LRBAMA0.5	-	100

■A, B Configurable Type

Part Number	-	A	-	B
LRBNMF0.5	-	395	-	201

■Features of Low Friction Rubber Sheets Chemical Resistance Data See P.391

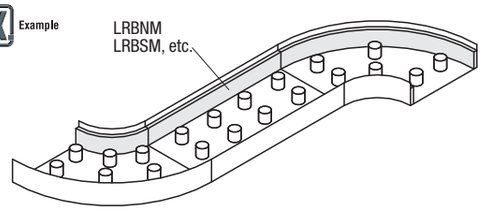
By making only one side of rubber surface coarse, the friction is reduced without changing other properties of the material.
Can be used on the surface of a sliding plate, robotic chuck and etc. that can stick with workpieces.

■Comparison of Dynamic Friction Coefficient

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

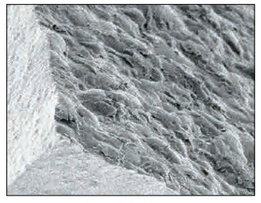
Measurement Method: JIS K7125
* Silicon rubber is not measurable because it is self-adhesive.

Example



Can be used to prevent curved parts of a conveyor from sticking with workpieces.

Regular



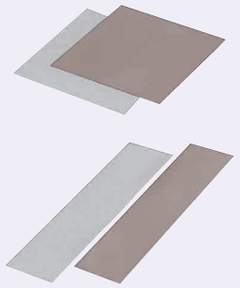
Low Friction

Resin Sheets, Fluororesin Tapes (Sliding, Dust-proof)

Fluororesin, Ultra High-Molecular-Weight Polyethylene

■Resin sheets and tapes with high sliding property and are slippery to the touch. Suitable for enhancing the sliding of workpieces.

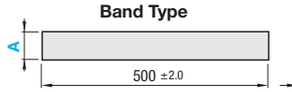
■Resin Sheets



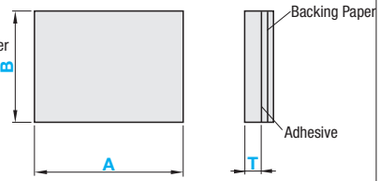
RoHS10

A Selectable Type	A, B Selectable	Material	Adhesive
PTFETT	PTFETS	Fluororesin	Silicon
ULTT	ULTS	Ultra High-Molecular-Weight Polyethylene	Acrylic

■A Selectable - Band



■A, B Selectable



■Accuracy Standards
- T Dimension Tolerance ±0.02
- Dimensional Tolerances of A and B

200mm or Less	300	400, 500
±1.0	±1.5	±2.0

■A Selectable - Band

Part Number		A Selection	Unit Price A3	A5	A10	A20	A30	A40	A50	A80	A100
Type	T										
PTFETT	0.23	3, 5, 10, 20, 30									
ULTT	0.12	40, 50, 80, 100									

L dimension is 500mm.

■A, B Selectable

Part Number		A Selection	B Selection	Unit Price B100	B200	B300	B400	B500
Type	T							
PTFETS	0.23	100	100 200 300 400 500		-	-	-	-
		200				-	-	-
		300					-	-
		400						-
		500						
ULTS	0.12	100	100 200 300 400 500		-	-	-	-
		200				-	-	-
		300					-	-
		400						-
		500						

Ordering Example

Part Number	-	A	-	B
PTFETT0.23	-	30		
ULTT0.12	-	5		
PTFETS0.23	-	100	-	100
ULTS0.12	-	500	-	100

■Features of Fluororesin and Ultra High-Molecular-Weight Polyethylene

• Fluororesin
Low friction coefficient, and excellent chemical resistance and heat resistance.

• Ultra High-Molecular-Weight Polyethylene
Although its friction coefficient and heat resistance are inferior to those of fluororesin, the price is relatively inexpensive. Also, it has excellent durability.

■Comparison of Dynamic Friction Coefficient

Fluororesin	0.08
Ultra High-Molecular-Weight Polyethylene	0.14
Nitrile Rubber	3.32

JIS K 7125

■Characteristic Values

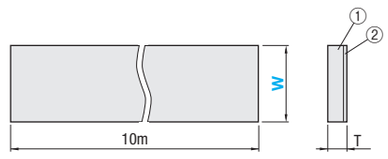
Material	Adhesive Strength (N/25mm Wide)	Tensile Strength (N/25mm Width)	Elongation %	Heat Resistance ℃	Chemical Resistance Oil	Water	Acid	Alkali	Ether	Ketone
Fluororesin	12	184	350	180	◎	◎	◎	◎	○	○
Ultra High-Molecular-Weight Polyethylene	10	93	300	100	○	◎	○	◎	○	○

◎- Excellent ○ - Good △ - Acceptable ✕ - Not Acceptable

■Fluororesin Tapes (Sliding, Dust-proof)

RoHS10

PTFET



	Material
①	Fluororesin Film
②	Adhesives (Silicon Type)

Part Number		W Selection (mm)	T (mm)	①Fluorine Film Thickness	Adhesive Strength (N/25mm Wide)	Tensile Strength (N/25mm Width)	Elongation %	Dielectric Breakdown kV	W13 Unit Price 1 ~ 9 pc(s).	W13 Volume Discount Rate 10~	W25 Unit Price 1 ~ 9 pc(s).	W25 Volume Discount Rate 10~	W50 Unit Price 1 ~ 9 pc(s).	W50 Volume Discount Rate 10~
Type	No.													
PTFET	1	13	0.08	0.05	6.13	49.0	200	4.5						
	2	25	0.13	0.08	9.32	56.4	250	7.5						
	3	50	0.18	0.13	10.79	122.6	340	8.2						
	4		0.23	0.18	11.52	149.6	360	9.0						

Ordering Example

Part Number	-	W
PTFET2	-	13

Example

Can be used inside of hoppers, etc.