

Nitrile Rubber Sheets

Nitrile rubber excels in abrasion and oil resistance and is inexpensive. Oil-resistant adhesives are available as an alternative.
 For Rubber Gaskets, see P455. For Rubber Blocks, see P422.

A Selectable Type				A, B Configurable Type				Material	Hardness	Color
No Adhesive	Adhesive	No Adhesive	Adhesive	No Adhesive	Adhesive	No Adhesive	Adhesive			
RBNM	RBNMA	RBNMF	RBNMFA	RBNM	RBNMA	RBNMF	RBNMFA	Nitrile Rubber (NBR)	Shore A70	Black
RBTM	RBTMA	RBTMF	RBTMFA	RBNW	RBNWA	RBNWF	RBNWFA		Shore A50	Black
RBNW	RBNWA	RBNWF	RBNWFA						Shore A65	White

Adhesive thickness is 0.14 ~ 0.2mm. For Adhesive Strength Data, see P438 (ADTR).
 Temperature limit for seals is 80°C. For oil-resistant adhesive strength, see P420.

Square Type
 Dimensions: A, T. Backing Paper, Seal.

Band Type
 Dimensions: 500⁺⁵/₀, T. Backing Paper, Seal.

T Tolerance		A, B Tolerance	
T	Tolerance	A, B	Tolerance
0.5	±0.2	200 or Less	±0.5
1-3	±0.3	201-300	±1.0
5	±0.4	301-500	±1.5
10	±0.6		
15-30	+2.0 -0.5		

A, B Configurable - Standard Type
 Dimensions: A, B, T. Backing Paper, Seal.

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	12
d1	6.5	8	9.5	11	14	17.5
h	3.5	4.5	5.5	6.5	9	11

A, B Configurable - Hole Type
 1-Hole 1H, 2-Hole 2H, 3-Hole 3H, 4-Hole 4H, 6-Hole 6H.
 Dimensions: A, B, C, F, T. Backing Paper, Seal.

For Adhesive Type T5 or more, the adhesive tape may tear from the body. Please use it as temporary fixing, or in combination with bolt fixing.
 A, B dimension tolerance has been changed. Please refer to the accuracy standards above.

Square Type			Band Type			A, B Configurable - Standard Type			
Part Number	T	A Selection	Part Number	T	A Selection	Part Number	T	A	B
No Adhesive	0.5	300 500	No Adhesive	0.5	3	No Adhesive	0.5	10-500	10-500
Adhesive	*1		Adhesive	5	5	Adhesive	*1		
RBNM	*2		RBNM	10	10	RBNMF	*2		
RBTM	*3		RBTM	20	20	RBTMF	*3		
RBNW	*5		RBNW	30	30	RBNWF	*5		
	*10			40	40		*10		
	*15			50	50		*15		
	*20			80	80		*20		
	*30			100	100		*30		

* Only * marked T dimensions are available for RBNW and RBNWA.
 L dimension is 500mm.
 * Only * marked T dimensions are available for RBNW and RBNWA.
 * Only * marked T dimensions are available for RBNWF and RBNWFA.
 A≥B≥T

A, B Configurable - Hole Type

Part Number	Type	Nominal	T	1mm Increment (A≥B≥T)		0.5mm Increment		Screw Nominal Dia. Selection												
				A	B	F	G	N (Through Hole)	Z (Counterbored Hole)											
No Adhesive	1H	0.5		10-500	10-500	5-495 (1H Type)	5-495 (1H, 2H, 3H Types)	3												
Adhesive	2H	*1							2H, 4H Types)	9-491	9-491 (4H, 6H Types)	4								
RBNMF	3H	*2											3H, 6H Types)	9-245	6					
RBTMF	4H	*3														3	4			
RBNWF	5H	*5																4	5	
	6H	*10																		4
		*15		4	5															
		*20				4	5													
		*30																		

Dimension F Specification Range: For 1H: d(d1)/2+2.5≤F≤A-d(d1)/2-2.5, for 2H, 4H: d(d1)+5≤F≤A-d(d1)-5, for 3H, 6H: d(d1)+5≤F≤A/2-d(d1)/2-2.5.
 Dimension G Specification Range: For 1H, 2H, 3H: d(d1)/2+2.5≤G≤B-d(d1)/2-2.5, for 4H, 6H: d(d1)+5≤G≤B-d(d1)-5. (d for through holes, d1 for counterbored holes.)
 * Only * marked T dimensions are available for RBNWF and RBNWFA. A≥B≥T

Ordering Example
 Square Type, Band Type
 Part Number - A Part Number - A - B - F - G - Screw Nominal Dia.

Square Type

Type	T	Unit Price							
		NBR Black		NBR White		NBR Black		NBR White	
		RBNM	RBNMA	RBNW	RBNWA	RBNM	RBNMA	RBNW	RBNWA
0.5		300				500			

A Selectable - Band

Part Number	Type	T	Unit Price										
			3	5	10	20	30	40	50	80	100		
No Adhesive	RBNM	0.5											
	RBTM	*1											
	RBNW	*2											
Adhesive	RBNMA	*3											
	RBTMA	*5											
	RBNWA	*10											

A, B Configurable - Standard / Hole Type

Part Number	Type	T	Unit Price					Part Number	Type	T	Unit Price				
			A		B						A		B		
No Adhesive	RBNMF	0.5	10-100					No Adhesive	RBNMF	*10	10-100				
	RBTMF	*1	101-200						RBTMF	15	101-200				
	RBNWF	*1.4	201-300						RBNWF	20	201-300				
			301-400								301-400				
			401-500								401-500				
Adhesive	RBNMFA	*2	10-100					Adhesive	RBNMFA	*20	10-100				
	RBTMFA	*1.3	101-200						RBTMFA	30	101-200				
	RBNWFA	*3	201-300						RBNWFA	40	201-300				
			301-400								301-400				
			401-500								401-500				
			10-100								10-100				
			101-200								101-200				
			201-300								201-300				
			301-400								301-400				
			401-500								401-500				

* Only * marked T dimensions are available for RBNWF and RBNWFA.
 * Yellowing of White Rubber: Please note upon application that yellowing is more pronounced compared to black rubber.

Hole Machining Charge

(Ex.) Part Number - A - B - F - G - Screw Nominal Dia.
 RBNMF4H10 - 200 - 180 - F160 - G140 - Z3

Hole Type	Screw Nominal
	N (Through Hole) Z (Counterbored Hole)
1H	
2H	
3H	
4H	
6H	

(Standard Type Unit Price) + (Hole Machining Charge) = (Hole Type) (Unit Price)

Alterations

Alterations	Hole Position from Left	Hole Position from Bottom	Adhesive Type Change
			Changes to oil-resistant adhesives.
Code	XC	YC	KT2
Spec.	XC=1mm Increment 3≤XC≤486 (2H, 4H Types) d(d1)/2+2.5≤XC≤A-F-d(d1)/2-2.5 (3H, 6H Types) d(d1)/2+2.5≤XC≤A-2F-d(d1)/2-2.5	YC=1mm Increment 3≤YC≤486 d(d1)/2+2.5≤YC≤B-G-d(d1)/2-2.5	Not available for No Adhesive Type. Only available for T=1, 2, 3. Band Type A=3 or 5 is not selectable. RBNWA and RBNWFA are not available. (Ordering Code) KT2

Price of Urethane Sheets with Oil-Resistant Adhesives

KT2 (A dimension)
10-100
101-200
201-300
301-400
401-500

* Alteration Code for NTR and NTRF has changed to KT2.