

Metal-Plated Urethane Sheets

Urethane / Rubber Blocks

Metal-Plated Urethane Sheets are available in short lead time.

Type	Type	Material	Hardness	Color
A, B Selectable	UTPFS	Ether	Shore A95	Natural Color
	UTPFH	Polyurethane	Shore A90	
	UTPFM	Ester	Shore A70	
	UTPFL	Polyurethane	Shore A50	
A Configurable	UTPFA	Ether	Shore A95	Natural Color
	UTPFHA	Polyurethane	Shore A90	
	UTPFMA	Ester	Shore A70	
	UTPFLA	Polyurethane	Shore A50	

Properties: P389
Plate: SUS304

Standard

Accuracy Standards

Tolerance	Tolerance
10,15	±0.2

Machining Limits
(Distance between Holes, Thickness between Holes and Edges)

Should be b ≥ 2.

A, B Tolerance

A, B Tolerance	Tolerance
50 or Less	±0.3
51-100	±0.5

Part Number		A		B	Plate Hole Position 0.5mm Increment		Tapped Hole M	t
Type	Nominal	T	A, B Selectable	A Configurable 1mm Increment	Selection	F	G	(Metal Plate Thickness)
A, B Selectable	A Configurable	1H 2H 4H	10	10-100	10 20 30 50	5-80	4-42	3 4 5 6 8 10
UTPFS UTPFH UTPFM UTPFL	UTPFA UTPFHA UTPFMA UTPFLA	15	20 50 100					6 10

Ordering Example: **Standard** Part Number - A - B - **Hole Type** Part Number - A - B - F - G - M
 UTPFS10 - 50 - 50 UTPFA2H10 - 20 - 30 - F10 - G15 - M4

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) = Unit Price of Standard Type
 UTPFL10 - 10 - 10 >>

A, B Selectable

Part Number	B	Unit Price			
		A			
Type	T	10	20	50	100
UTPFS (x1.0) UTPFH (x0.9) UTPFM (x1.0) UTPFL (x1.1)	10	10			
		20			
		30			
	15	10			
		20			
		30			

A Configurable

Part Number	B	Unit Price			
		A			
Type	T	10-25	26-50	51-75	76-100
UTPFA (x1.0) UTPFHA (x0.9) UTPFMA (x1.0) UTPFLA (x1.1)	10	10			
		20			
		30			
	15	10			
		20			
		30			

Tap Hole Machining Charge

The price of the Hole Type is found by adding the standard type unit price and the hole machining charge.

(Ex) Part Number - A - B - F - G - M >>
 UTPFA2H10 - 20 - 50 - F10 - G15 - M4

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

Hole Type	Tapped Hole M
1H	
2H	
4H	

Alterations: Part Number - A - B - F - G - M - (XC, YC)
 UTPFA4H10 - 20 - 30 - F10 - G15 - M4 - YC10

Alterations	Hole Position from Left		Hole Position from Bottom	
	XC	YC	XC	YC
Code	XC	YC	XC	YC
Spec.	XC=1mm Increment For machining limits, see above.	YC=1mm Increment For machining limits, see above.	XC=1mm Increment For machining limits, see above.	YC=1mm Increment For machining limits, see above.

Type	Material	Hardness	Color
BUTSN	Ether	Shore A95	Natural Color
BUTHN	Polyurethane	Shore A90	Natural Color
BUTM	Ester	Shore A70	Natural Color
BUTL	Polyurethane	Shore A50	Natural Color
BRBNM	Nitrile Rubber	Shore A70	Black
BRBCM	Chloroprene Rubber	Shore A65	Black
BRBFM	Fluororubber	Shore A80	Black
BRBSM	Silicon Rubber	Shore A70	Light Gray
BRBAM	Silicon Rubber	Shore A50	Milky White
BUNSE	Low Elasticity Rubber	Shore A32	Black

2-Screw Nominal Dia. Selection
 N (Through Hole)
 Z (Counterbored Hole)

5 ≤ T - d(d1)
 d(d1) + 5 ≤ F ≤ A - d(d1) - 5

Hole Machining Details

Screw Nominal Dia.	3	4	5	6	8	10	12
d	3.5	4.5	5.5	6.5	9	12	14
d1	6.5	8	9.5	11	14	17.5	20.5
h	3.5	4.5	5.5	6.5	9	11	14

Part Number	1mm Increment				Screw Nominal Dia. Selection	
Type	A	B	T	F	N (Through Hole), Z (Counterbored Hole)	
BUTSN (Urethane A95)	25-150	25-100	6-30	9-141	0 3 4 5 6 8 10 12	
BUTHN (Urethane A90)					(When B < 30)	
BUTM (Urethane A70)					0 5 6 8 10 12	
BUTL (Urethane A50)					(When 30 ≤ B < 50)	
BRBNM (Nitrile Rubber)					0 10 12	
BRBCM (Chloroprene Rubber)					(When 50 ≤ B)	
BRBFM (Fluororubber)					For No Hole N=0	
BRBSM (Silicon Rubber A70)						
BRBAM (Silicon Rubber A50)						
BUNSE (Low Elasticity Rubber)						

Ordering Example: Part Number - A - B - T - F - Screw Nominal Dia. Selection
 BUTSN - A100 - B100 - T21 - F53 - N12
 BUNSE - A150 - B50 - T7 - F0 - N0

Part Number	Type	A	B	T	Unit Price											
					BUTSN	BUTM	BUTL	BUTHN	BRBNM	BRBCM	BRBFM	BRBSM	BRBAM	BUNSE		
BUTSN BUTHN BUTM BUTL BRBNM BRBCM BRBFM BRBSM BRBAM BUNSE	25-40	25-50	10	6-10												
				11-15												
				16-20												
				21-25												
				26-30												
				6-10												
	41-60	61-80	81-100	11-15												
				16-20												
				21-25												
				26-30												
				6-10												
				11-15												
25-40	51-100	81-100	16-20													
			21-25													
			26-30													
			6-10													
			11-15													
			16-20													

Part Number	Type	A	B	T	Unit Price									
					BUTSN	BUTM	BUTL	BUTHN	BRBNM	BRBCM	BRBFM	BRBSM	BRBAM	BUNSE
BUTSN BUTHN BUTM BUTL BRBNM BRBCM BRBFM BRBSM BRBAM BUNSE	25-40	101-150	10	6-10										
				11-15										
				16-20										
				21-25										
				26-30										
				6-10										
	41-60	61-80	81-100	11-15										
				16-20										
				21-25										
				26-30										
				6-10										
				11-15										

Alterations: Part Number - A - B - T - F - Screw Nominal Dia. Selection - (ZC)
 BUTSN - A100 - B100 - T30 - F53 - Z10 - ZC17.5-J16

Counterbored Hole Detailed Dimensions

Code: Changes the dimensions of counterbore hole.
 Ordering Code: ZC17.5-J15
 ZC, J=0.5mm Increment
 ZC-d=4
 B-J=2