

# Urethane Sheets with Metal Plates

**Urethane Sheets with Metal Plates**

RoHS10

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

Properties P.2566.

**Accuracy Standards**

**T Tolerance**

T	Tolerance
10, 15	±0.2

**A / B Tolerance**

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

**Machining Limits**  
(Distance Between Holes, Thickness Between Holes & Edges)

Material: Plates: 304 Stainless Steel

**Metal Plate Tapped Hole Type**

## Metal Plate Tapped Hole Type

Part Number		A		B Selection	Plate Hole Position 1 mm Increment		Tapped Hole M	t (Plate Thickness)
Type	Nominal	T	Standard Type		1 mm Increment	F		
Flat Type			10					
A, B Selectable	A Configurable	1H	20	10	5-80	4-42	3	6
	UTPFS	2H	10-100					
	UTPFH	4H						
	UTPFM							
	UTPFL		100				8	10

**Part Number Example**

Part Number - A - B - F - G - M

UTPFA2H10 - 20 - 30 - F10 - G15 - M4

**Part Number 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
<b>Code</b>	<b>XC</b>	<b>YC</b>
<b>Spec.</b>	XC=1 mm Increment ⊖ For machining limits, see above.	YC=1 mm Increment ⊖ For machining limits, see above.

# Urethane / Rubber Blocks

**Urethane / Rubber Blocks**

RoHS10

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	Fluoro Rubber	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-Bolt Nominal Diameter Selection  
N (Through Hole)  
Z (Counterbore)

⊖ 5≤T-d(d<sub>i</sub>)  
⊖ d(d<sub>i</sub>)+5≤F≤A-d(d<sub>i</sub>)-5

Part Number	1 mm Increment				Bolt Nominal Diameter	
	A	B	T	F	(N Through Hole) - Z (Counterbored Hole)	
BUTSN Urethane A95					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	25-150	25-100	6-30	9-141 ⊖ when N=0, F=0 ⊖ 0	When 50≤B	
BRBCM Chloroprene Rubber					10 12	
BRBFM Fluoro Rubber						
BRBSM Silicon Rubber A70						
BRBAM Silicon Rubber A50						
BUNSE Low Elasticity Rubber					⊖ When No Hole N=0	

**Hole Machining Details**

N Through Hole

Z Counterbore

Screw Nominal	3	4	5	6	8	10	12
d	3.5	4.5	5.5	6.5	9	12	14
d <sub>i</sub>	6.5	8	9.5	11	14	17.5	20.5
h	3.5	4.5	5.5	6.5	9	11	14

Type	Material	Tolerance		
BUTSN	Ether Type	T Dimension	6-9 ±0.3	10 or More ±0.5
BUTHN	Polyurethane			
BUTM	Ester Type	A, B Dimension Tolerance	30 mm or Less ±0.5	31-50 ±0.7
BUTL	Polyurethane			51 or More ±0.8
BRBNM	Nitrile Rubber	T Dimension	6-9 ±0.5	10 or More ±0.8
BRBCM	Chloroprene Rubber			
BRBFM	Fluoro Rubber			
BRBSM	Silicon Rubber			
BRBAM	Silicon Rubber	A, B Dimension Tolerance	30 mm or Less ±0.8	31-50 ±1.0
BUNSE	Low Elasticity Rubber			51 or More ±1.5

**Part Number Example**

Part Number - A - B - T - F - Bolt Nominal Diameter

BUTSN - A100 - B100 - T21 - F53 - N12

BUNSE - A150 - B50 - T7 - F0 - N0

**Part Number Alterations**

Part Number - A - B - F - G - Screw Nominal Diameter - (ZC)

BUTSN - A100 - B100 - T30 - F53 - Z10 - ZC17.5-J16

Alteration	Counterbore Hole Detailed Size
<b>Code</b>	<b>ZC</b>
<b>Spec.</b>	Changes the dimensions of Counterbore Hole. Ordering Code: ZC-Z17.5-J15 Z, J=0.5 mm Increment Z-d≥4 B-J≥2