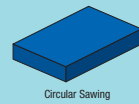


Ultra High-Molecular-Weight Polyethylene Plates

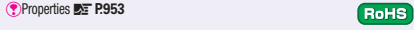
Standard / Conductive Grade



Ultra High-Molecular-Weight Polyethylene is light in specific gravity and weight. Excels in abrasion resistance and sliding property. In addition to Standard Type, Conductive Grade for antistatic is also available.

* For Details of color samples and features, see P951.

Type	Grade	Color	Operating Ambient Temperature	Finish	4 Sides		Upper-lower Surface	
					Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
UPA	Standard	Milky White	-100~80°C	Circular Sawing	Circular Sawing	Material	~	~
UPACA	Electrical Conductivity	Black	-100~80°C	Circular Sawing	✓	Material	~	~



Standard Type

Pre-drilled Type

2H

2HL

4H

6H

Hole Machining Details

N (Through Hole)	Z (Counterbore Hole)	M (Threaded Insert)
Screw Nominal Dia. 3 4 5 6 8 10	Screw Nominal Dia. 3 4 5 6 8 10	Table 1M (Threaded Insert) Details
d 3.5 4.5 5.5 6.5 9 11	d 3.5 4.5 5.5 6.5 9 11	d 3 4 5 6 8 10
d1 6.5 8 9.5 11 14	d1 6.5 8 9.5 11 14	L 4.5 6 7.5 9 12 15
h 4 5 6 7 9	h 4 5 6 7 9	6 8 10 12 16 20

Ordering Code (Ex.) M4-L6
 L<T-1
 When L+S<T, drilled holes will be blind ones.

Nominal Dia. b (Min. Value)
 3-10 2.5

Material: Ultra High-Molecular-Weight Polyethylene (UHMWPE)

Standard Type

Part Number	A	B	T
Type	1mm Increment	Selectable	
UPA (Standard)	20-500	20-400	3, 5, 8, 10, 15, 20
UPACA (Conductive)	20-500	20-400	10, 15, 20

T Dimension Tolerance, Rate of Camber and Torsion

T	T Dimension Tolerance	Rate of Camber and Torsion per 1,000mm
3	-0.2~+0.5	10% or Less
5	0~+0.8	-
8	0~+1.0	2.0% or Less
10	0~+1.5	-
15	0~+2.0	1.5% or Less
20	0~+2.5	-

Dimension Tolerances of A and B

A, B Unit: mm	A, B Dimension Tolerance
~99	±0.5
100-250	±0.75
251~	±1.0

Pre-drilled Type

Part Number	Hole Dia.	A	B	T Selection		F	G	Pre-drilled Hole Nominal Dia.					
				UPA	UPACA			Through Hole	Counterbore Hole	Threaded Insert		L	
UPA (Standard) UPACA (Conductive)	2H 2HL 4H 4H 6H	20~500	20~400	3	-	0.5mm Increment	4.5~395.5 (2H)	3	-	-	-		-
				5	-				-	3 4			
				8	-				4 5	3 4 5 6			
				10	10				4 5 6	3 4 5 6 8			
				15	15				4 5 6 8	3 4 5 6 8 10			
20	20	4 5 6 8	3 4 5 6 8 10										

Dimension F Specification Range: For 2H and 4H, $d(d1)+2.5 \leq F \leq A-d(d1)-5$; for 2HL, $d(d1)/2+2.5 \leq F \leq A-d(d1)/2-2.5$; for 6H, $d(d1)+2.5 \leq F \leq (A-d(d1)-5)/2$.

Dimension G Specification Range: For 2H, $d(d1)/2+2.5 \leq G \leq B-d(d1)/2-2.5$; for 2HL, 4H and 6H, $d(d1)+2.5 \leq G \leq B-d(d1)-5$.

(d for through hole and threaded insert, d1 for counterbore)

For Pre-drilled Type, select N (through hole) or Z (counterbore hole); for Threaded Insert Type, select M (threaded insert) or L (insertion length).

Ordering Example

Standard Type
 Part Number - A - B - T
 UPA - 150 - 118 - 5

Pre-drilled, Threaded Insert Type
 Part Number - A - B - T - F - G - Screw Nominal Dia. - L
 UPA2H - 50 - 25 - 8 - F34 - G10 - N4 - L7.5
 UPA2H - 200 - 100 - 10 - F70 - G20 - M5 - L7.5

Plate Price

Material multiplier should be noted. UPACA x1.2

Part Number	T	A	Unit Price						
			20	51	101	151	201	251	301
UPA (x1.0)	3	20~50	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-
		301~350	-	-	-	-	-	-	-
		351~400	-	-	-	-	-	-	-
		401~450	-	-	-	-	-	-	-
		451~500	-	-	-	-	-	-	-
UPA (x1.0)	5	20~50	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-
		301~350	-	-	-	-	-	-	-
		351~400	-	-	-	-	-	-	-
		401~450	-	-	-	-	-	-	-
		451~500	-	-	-	-	-	-	-
UPACA (x1.2)	8	20~50	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-
		301~350	-	-	-	-	-	-	-
		351~400	-	-	-	-	-	-	-
		401~450	-	-	-	-	-	-	-
		451~500	-	-	-	-	-	-	-

Hole Machining Charge

Pre-drilled Type	Hole Machining Charge		
	N (Through Hole)	Z (Counterbore Hole)	M (Threaded Insert)
2H, 2HL			
4H			
6H			

The prices of Pre-drilled Type and Threaded Insert Type are Standard Type Unit Price plus Hole Machining Charge or Threaded Insert Machining Charge, respectively.

Price Calculation Method for Pre-drilled Type

Part Number - A - B - T - F - G - Screw Nominal Dia. - L >> (Standard Type Unit Price) + (Threaded Insert Machining Details) = Threaded Insert Type Unit Price

UPACA2H - 300 - 200 - 10 - F240 - G160 - M5 - L5 >>

Alterations

Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC, CRA --- etc.)

UPA4H - 200 - 180 - 8 - F100 - G140 - Z4 - XC10
 UPACA - 200 - 130 - 15 - CRA10 - CRB10

Alterations	Corner Radius	Corner Cut	Hole Position from Left	Hole Position from Bottom
Code	CRA, CRB, CRC, CRD	CCA, CCB, CCC, CCD	XC	YC
Spec.	Adds radius to any corner. R = 5mm Increment 5 ≤ CRA, CRB, CRC, CRD ≤ 100 Ordering Code (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10 Available for Standard Type only.	Cuts any corners. 5 ≤ Corner Cut ≤ 50 5mm Increment Ordering Code (Ex.) When the corners of A and D are cut by C5 → CCA5-CCD5 Available for Standard Type only.	XC = 0.5mm Increment (2H, 4H Type) d(d1)/2+2.5 ≤ XC ≤ A-F-d(d1)/2-2.5 (6H Type) d(d1)/2+2.5 ≤ XC ≤ A-2F-d(d1)/2-2.5	YC = 0.5mm Increment d(d1)/2+2.5 ≤ YC ≤ B-G-d(d1)/2-2.5 Not available for 2H.