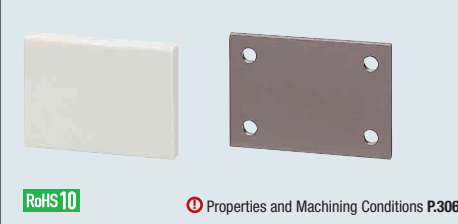


PBT Plates / Unilate® (Free-Cutting Resin) Plates

PBT excels in insulation and machinability.
Unilate® (Free-Cutting Resin Plate) excels in heat resistance and insulation.

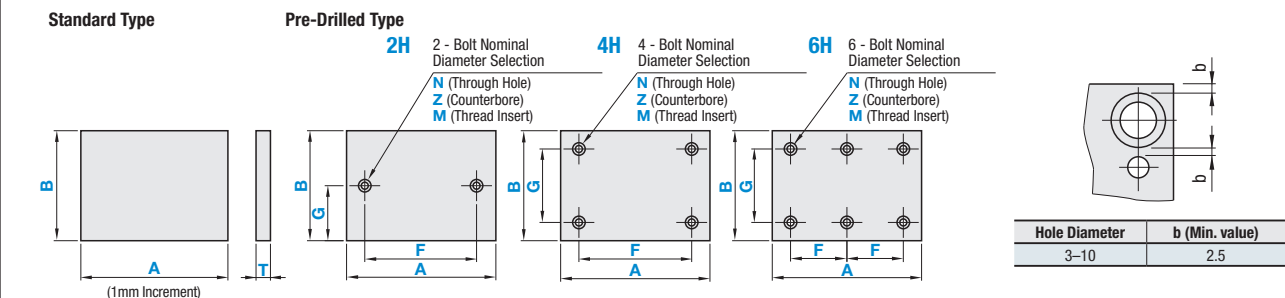
*Details of color samples and features, see P.3070

PBT Plates Unilate® - Free-Cutting Resin Plates



Type	Materials	Color	Operating Ambient Temperature
NPBT	PBT Polybutylene Terephthalate	White	Ambient Temp.: -120°C
YCA	Unilate® (Free-Cutting Resin)	Natural Brown	
PYCA	Antistatic PET, PET300ESD	Black	Room Temp.: -120°C

Unilate® is a registered trademark of Uniteca Ltd.



Drilling Details			
N (Through hole)	Z (Counterbore Hole)	N (Through Hole) Z (Counterbored Hole) Details	M (Thread Insert)
		Table 1 M (Thread Insert) Details	
		Bolt Nominal Dia.	3 4 5 6 8 10
		d	3.5 4.5 5.5 6.5 9 11
		d ₁	6.5* 8 9.5 11 14 —
		h	4* 5 6 7 9 —

Finish	4 Sides		Top / Bottom	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Saw Cut	Saw Cut	✓	Material	—

Material: ABS Resin: Acrylic Nitrile, Butadiene, Styrene
PPS: Polyphenylenesulfide

*Dimensions are for NPBT only.

Standard Type

Part Number	A	B	T
Type	1 mm Increment	Selection	
NPBT PBT Polybutylene Terephthalate Plates	20-300	20-300	10 15 20
PYCA Antistatic PET	20-500 40-300	20-400 40-300	8 10 15 20 25 30 40 50
YCA YCA Unilate® (Free-Cutting Resin)	20-800	20-600	5 10 15

T Dimension Tolerance, Rate of Camber & Torsion

T	T Dimension Tolerance		Rates of Camber & Torsion	
	NPBT		per 1,000 mm	
10	0-+1.5		1.5% or Less	
15			1.0% or Less	
20	0-+2.5			

T	T Dimension Tolerance		Rates of Camber & Torsion	
	YCA	PYCA	per 1,000m	
5	±0.35	—	1.5% or Less	
8	—	±1.4		
10	±3.0	±1.4		
15	±4.0	±2.0		
20, 25	—	±2.0		
35, 40, 50	—	±3.0		

Dimensional Tolerances of A & B

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

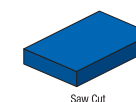
Pre-Drilled Type

Part Number	A	B	T	F	G	4Pre-Drilled Hole Nominal Diameter				
						Through Hole	Counterbore Hole	Thread Insert		
Type	Nominal	1 mm Increment	Selection	0.5 mm Increment		N	Z	M		L
NPBT PBT Polybutylene Terephthalate Plates	20-300	20-300	10	6-291.5 (2H, 4H)	4.5-295.5 (2H)	3	4 5 6	3 4 5 6 8	8 10	
			15	6-145.5 (4H, 6H)	6-291.5 (4H, 6H)		4 5 6 8	3 4 5 6 8 10		
			20				4 5 6 8	3 4 5 6 8 10		
YCA Unilate® (Free-Cutting Resin)	20-800	20-600	5	6-791.5 (2H, 4H)	4.5-595.5 (2H)	4	—	3 4	8 10	
			10				4 5 6	3 4 5 6 8 10		
			15				4 5 6 8	3 4 5 6 8 10		
PYCA Antistatic PET	20-500	20-400	8			5	4 5 6	3 4 5 6	8 10	
			10	6-491.5 (2H, 4H)	4.5-395.5 (2H)		4 5 6	3 4 5 6 8		
			15	6-245.5 (6H)	6-391.5 (4H, 6H)		4 5 6 8	3 4 5 6 8 10		
			20				4 5 6 8	3 4 5 6 8 10		
			25				4 5 6 8	3 4 5 6 8 10		

Dimension F Specification Range: For 2H and 4H, $d(d_1)/2+2.5 \leq F \leq A-d(d_1)-5$; for 2HL, $d(d_1)/2+2.5 \leq F \leq A-d(d_1)/2-2.5$; for 6H, $d(d_1)+2.5 \leq F \leq (A-d(d_1)-5)/2$.
Dimension G Specification Range: For 2H, $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$; for 2HL, 4H and 6H, $d(d_1)+2.5 \leq G \leq B-d(d_1)-5$. (d for through hole, thread 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).

PBT Plates / Unilate® (Free-Cutting Resin) Plates

continued



Part Number Example	Standard Type
	Part Number - A - B - T
NPBT	- 300 - 200 - 10
YCA	- 300 - 200 - 10

Part Number	Pre-Drilled Type
	Part Number - A - B - T - F - G - Bolt Nominal Diameter - L
NPBT2H	- 200 - 100 - 15 - F50 - G30 - N5
YCA2H	- 180 - 100 - 10 - F80 - G60 - M5 - L5

Part Number Alterations	Part Number	Alterations
YCA	- 200 - 100 - 15 - F100 - G140 - N4	- CRA10-CRC10
YCA4H	- 200 - 200 - 10 - F100 - G140 - Z4	- XC10

Alterations	Corner Radius	Corner Cut	Hole Position from Left	Hole Position from Bottom
	Code	CRA, CRB, CRC, CRD	CCA, CCB, CCC, CCD	XC
Spec.	Adds radius to any corner. R = 5 mm Increment 10 ≤ A(B) - R(2R) 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 Cuts ≤ 50 10 ≤ A-C(2C) or B-C(2C) 5 mm Increment Ordering Code: (Ex.) When the corners of A and D are cut by C5 CCA5-CCD5 Available for Standard Type only.	XC = 0.5 mm Increment (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ (6H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	YC = 0.5 mm Increment $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ Not available for 2H