

Polyacetal Plates

Standard / Antistatic Grade



Polyacetal (equal to Duracone®) is a general Engineered Plastic used for various industrial purposes. Antistatic Grade is made from non-carbon antistatic materials. For Finishing, Circular Sawing and Milling are available.

*For Details of color samples and features, see P.951

Standard Type

Properties P.953 RoHS

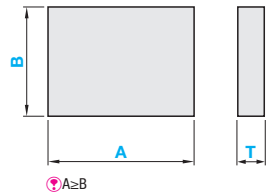
For Plastic Blocks, see P.1024.

Type	Grade	Color	Operating Ambient Temperature
PAA	Standard	White	-45~95°C
PABA		Black	
PACA	Antistatic	Ocher	Ambient Temperature: ~ 80°C

T	Dimension Tolerance of A and B		T Dimension Tolerance, Rate of Camber and Torsion	
	A-B Unit: mm	A, B Dimension Tolerance	T	T Dimension Tolerance Rates of Camber and Torsion per 1,000mm
5~30	~99	±0.5	5~10	+0.2~1.5
	100~250	±0.75	12	+0.3~2.0
40~60	251~	±1.0	15~30	0.5% or Less
	~300	0~+5	40, 50, 60	+0.5~3.0

Finish	4 Sides		Upper-lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	✓	Material	~
Guaranteed Perpendicularity of Circular Saw Cuts (NT)	Circular Sawing	✓	Material	~
4-side Milling (4F)	Milling	✓	Material	~
6-surface Milling (6F)	Milling	✓	Milling	✓
Upper-lower Surface Milling (2F)	Circular Sawing	✓	Milling	✓

Finish	Precision Guarantee	
	Width Parallelism per 100mm	Perpendicularity of Reference Plane
Guaranteed Perpendicularity of Circular Saw Cuts (NT)	0.1	0.1
4-side Milling (4F)	0.1	0.1
6-surface Milling (6F)	0.1	0.1



Material: Polyacetal Reference plane stickers are attached to 4-side milled plates.

Type	Finish Selection	T Dimension Tolerance	Part Number			Dimension Range by Material	A	B	T	
			A, B Dimension Tolerance							
PAA (Standard White) PABA (Standard Black) PACA (Antistatic Grade)	-	Not available	Circular Sawing			PAA PABA PACA	1mm Increment		Selectable	
			Guaranteed Perpendicularity of Circular Saw Cuts (NT)				0.5mm Increment		Selectable	
			4-side Milling (4F)				0.1mm Increment		Selectable	
	NT	Not available	Q N M	T5, 6, 8, 9, 10	T12, 15, 19, 20	T25, 30	PAA PABA PACA	0.5mm Increment		Selectable
				6-surface Milling (6F)				0.1mm Increment		Selectable
				Upper-lower Surface Milling (2F)				1mm Increment		0.1mm Increment
	4F	Not available	Q N M	4-side Milling (4F)			PAA PABA PACA	0.1mm Increment		Selectable
				6-surface Milling (6F)				0.1mm Increment		0.1mm Increment
				Upper-lower Surface Milling (2F)				1mm Increment		0.1mm Increment
	6F	Q N M	Q N M	6-surface Milling (6F)			PAA PABA PACA	0.1mm Increment		5~29
				Upper-lower Surface Milling (2F)				1mm Increment		0.1mm Increment
				Upper-lower Surface Milling (2F)				1mm Increment		0.1mm Increment

T40, 50 and 60 may have steps on cut surfaces.
For T0.5, 1.0, 1.5 and 2.0, see P.973.

Alterations

Part Number	A	B	T
PAA	300	200	40
PAANTQ	200.5	100.5	10
PAA4FN	150.5	100.3	15
PAA6FMM	100.3	90.5	10.5
PAA2FQ	80	50	5

Alterations

Alterations	Corner Radius	Corner Cut
Code	CRA, CRB, CRC, CRD	CCA, CCB, CCC, CCD
Spec.	Adds radius to any corner. R = 5mm Increment. 10 ≤ A(B) - R(2R). 5 ≤ CRA, CRB, CRC, CRD ≤ 100. (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10. Not applicable to 4-side milling or 6-surface milling. Not applicable to T40, 50 and 60.	Cuts any corners. 5 ≤ Corner Cut ≤ 50. 5mm Increment. (Ex.) When the corners of A and D are cut by C5 → CCAS-CCD5. Not applicable to 4-side milling or 6-surface milling. Not applicable to T40, 50 and 60.

Pre-drilled Type

Properties P.953 RoHS

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PABA		Black	
PACA	Antistatic	Ocher	Ambient Temperature: ~ 80°C

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	A-B Unit: mm	A, B Dimension Tolerance	T	T Dimension Tolerance Rates of Camber and Torsion per 1,000mm
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	100~250	±0.75	12	+0.3~2.0
40~60	251~	±1.0	15~30	0.5% or Less
	~300	0~+5	40, 50, 60	+0.5~3.0

Hole Machining Details

Finish	4 Sides	Upper-lower Surface	
Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	Material	~
Upper-lower Surface Milling (2F)	Circular Sawing	Milling	✓

Type	Part Number	T Dimension Tolerance	Number of Holes	A	B	T Dimension Range by Material	T	F	G
PAA (Standard White) PABA (Standard Black) PACA (Antistatic Grade)	-	Not available	2H (Horizontal) 2HL (Vertical) 4H 6H	1mm Increment		PAA PABA PACA	Selectable		0.5mm Increment
				0.5mm Increment			Selectable		0.5mm Increment
				0.1mm Increment			Selectable		0.5mm Increment
	2FQ 2FN 2FM	0~+0.2 ±0.1 -0.2~0	2H (Horizontal) 2HL (Vertical) 4H 6H	1mm Increment		PAA PABA PACA	T Dimension Configurable: 0.1mm Increment		0.5mm Increment
				0.5mm Increment			Selectable		0.5mm Increment
				0.1mm Increment			Selectable		0.5mm Increment

T Dimension	Pre-drilled Hole Nominal Dia.			
	Through Hole	Counterbore Hole	Threaded Insert	
5			3	4
6, 7	3		3	4
8	4		3	4
9	5		3	4
10, 11	6		3	4
12~14	8		3	4
15~30	10		3	4

Dimension F Specification Range: For 2H and 4H, d(d)+2.5 ≤ F ≤ A-d(d)-5; for 2HL, d(d)/2+2.5 ≤ F ≤ A-d(d)/2-2.5; for 6H, d(d)+2.5 ≤ F ≤ (A-d(d)-5)/2.
Dimension G Specification Range: For 2H, d(d)/2+2.5 ≤ G ≤ B-d(d)/2-2.5; for 2HL, 4H and 6H, d(d)+2.5 ≤ G ≤ B-d(d)-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

Pre-drilled Type

Part Number - A - B - T - F - G - Screw Nominal Dia. - L

PABA4H - 400 - 325 - 15 - F300 - G200 - Z6

PABA4H - 500 - 300 - 10 - F300 - G200 - M5 - L7.5

Alterations

Alterations	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC = 0.5mm Increment (2H, 4H Type) d(d)/2+2.5 ≤ XC ≤ A-F-d(d)/2-2.5 (6H Type) d(d)/2+2.5 ≤ XC ≤ A-2F-d(d)/2-2.5	YC = 0.5mm Increment (2H, 4H Type) d(d)/2+2.5 ≤ YC ≤ B-G-d(d)/2-2.5 (6H Type) Not available for 2H.