


Polyacetal Plates

Standard Type

Polyacetal (equal to Duracone®) is a general Engineered Plastic used for various industrial purposes. Conductive Grade is made from non-carbon antistatic materials. New types of finishing are available for saw cut.



Standard Type

RoHS10 Properties P.3067

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

Dimensional Tolerances of A & B

T	A, B Unit: mm	A, B Dimension Tolerance
5-30	~99	±0.5
	100-250	±0.75
	251~	±1.0
40-60	~300	0~+5

T Dimension Tolerance, Rate of Camber & Torsion

T	T Dimension Tolerance	Rates of Camber & Torsion per 1,000 mm
5, 6, 8, 9, 10	+0.2~+1.5	1.0% or Less
12		
15, 19, 20, 25, 30	+0.3~+2.0	0.5% or Less
40, 50, 60	+0.5~+3.0	

Precision Guarantee

Finish	Width Parallelism	Perpendicularity of Reference Plane
Guaranteed Perpendicularity of Circular Sawing	0.1	0.1
4-Side Milling (4F)		
6-Surface Milling (6F)		
Upper-Lower Surface Milling (2F)		

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

Type	Finish Selection	Part Number	T Dimension Tolerance	A, B Dimension Tolerance	By Material Dimension Range	A	B	T	
PAA PABA PACA	Standard White Standard Black Conductive Grade	Saw Cut			1 mm Increment		Selection		
		—	Not Available	Not Available	PAA	20-500	20-400	5 6 8 10 12 15 20 25 30	
		—	Not Available	Not Available	PABA	40-300	40-300	40 50 60	
		—	Not Available	Not Available	PACA	20-500	20-400	5 6 8 10 12 15 20 25 30	
		—	Not Available	Not Available	PACA	20-500	20-400	6 9 12 19 25	
		Guaranteed Perpendicularity of Circular Sawing (NT)			0.5 mm Increment		Selection		
		NT	Not Available	T5, 6, 8, 9, 10 T12, 15, 19, 20 T25, 30	PAA	20-500	20-400	5 6 8 10 12 15 20 25 30	
		NT	Not Available	Q 0+0.3 0+0.4 0+0.5	PABA	20-500	20-400	5 6 8 10 12 15 20 25 30	
		NT	Not Available	M -0.3-0 -0.4-0 -0.5-0	PACA	20-500	20-400	6 9 12 19 25	
		4-Side Milling (4F)			0.1 mm Increment		Selection		
4F	Not Available	Q 0+0.2 ±0.1 ±0.1	PAA	10-400	10-200	5 6 8 10 12 15 20 25 30			
4F	Not Available	N ±0.1 ±0.1	PABA	10-400	10-200	5 6 8 10 12 15 20 25 30			
4F	Not Available	M -0.2-0 -0.2-0	PACA	10-400	10-200	6 9 12 19 25			
6-Surface Milling (6F)			0.1 mm Increment		0.1 mm Increment				
6F	Not Available	Q 0+0.2 ±0.1 ±0.1	PAA	10-400	10-200	5-29			
6F	Not Available	N ±0.1 ±0.1	PABA	10-400	10-200	5-29			
6F	Not Available	M -0.2-0 -0.2-0	PACA	10-400	10-200	5-24			
Upper-Lower Surface Milling (2F)			1 mm Increments		0.1 mm Increment				
2F	Not Available	Q 0+0.2 ±0.1 ±0.1	PAA	20-400	20-250	5-29			
2F	Not Available	N ±0.1 ±0.1	PABA	20-400	20-250	5-29			
2F	Not Available	M -0.2-0 -0.2-0	PACA	20-400	20-250	5-24			

T40, 50 and 60 may have steps on cut surfaces.

Part Number Example

Part Number	A	B	T
Circular Sawing	PAA	- 300	- 200 - 40
Guaranteed Perpendicularity of Circular Sawing	PAANTQ	- 200.5 - 100.5	- 10
4-Side Milling	PAA4FN	- 150.5 - 100.3	- 15
6-Surface Milling	PAA6FMM	- 100.3 - 90.5	- 10.5
Upper-Lower Surface Milling	PAA2FQ	- 80 - 50	- 5

Part Number Alterations

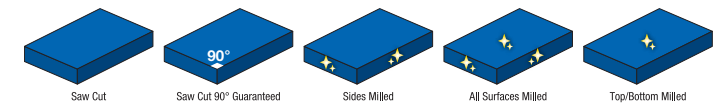
Part Number - A - B - T - (CRA...)


PAA - 300 - 200 - 10 - CRA10

Alterations	Corner Radius		Corner Cut	
	CRA	CRB	CCA	CCD
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 Ordering Code: (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10 Not applicable to Sides Milled or All Surfaces Milled. Not applicable to T40, 50 and 60.		Cuts any corners. 5≤Corner Cut≤50 10≤A-C(2C) or B-C(2C) 5mm Increment Ordering Code: (Ex.) When the corners of A and D are cut by C5-CCAs-CCD5 Not applicable to Sides Milled or All Surfaces Milled. Not applicable to T40, 50 and 60.	

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Pre-Drilled Type





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T Dimension Tolerance, Rate of Camber & Torsion

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40, 50, 60	+0.5~+3.0	

Drilling Details

N (Through hole)	Z (Counterbore Hole)	N (Through Hole) Z (Counterbore Hole) Details	M (Thread Insert)	Table 1 M (Thread Insert) Details																																																															
		<table border="1"> <thead> <tr> <th>Bolt Nominal Dia.</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>8</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>d</td> <td>3.5</td> <td>4.5</td> <td>5.5</td> <td>6.5</td> <td>9</td> <td>11</td> </tr> <tr> <td>d_i</td> <td>6.5</td> <td>8</td> <td>9.5</td> <td>11</td> <td>14</td> <td>—</td> </tr> <tr> <td>h</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>9</td> <td>—</td> </tr> </tbody> </table>	Bolt Nominal Dia.	3	4	5	6	8	10	d	3.5	4.5	5.5	6.5	9	11	d _i	6.5	8	9.5	11	14	—	h	4	5	6	7	9	—		<table border="1"> <thead> <tr> <th>Bolt Nominal Dia.</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>8</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>d</td> <td>3.5</td> <td>4.5</td> <td>5.5</td> <td>6.5</td> <td>9</td> <td>11</td> </tr> <tr> <td>L</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>8</td> <td>10</td> </tr> <tr> <td>L</td> <td>4.5</td> <td>6</td> <td>7.5</td> <td>9</td> <td>12</td> <td>15</td> </tr> <tr> <td>L</td> <td>6</td> <td>8</td> <td>10</td> <td>12</td> <td>16</td> <td>20</td> </tr> </tbody> </table>	Bolt Nominal Dia.	3	4	5	6	8	10	d	3.5	4.5	5.5	6.5	9	11	L	3	4	5	6	8	10	L	4.5	6	7.5	9	12	15	L	6	8	10	12	16	20
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Ordering Code: (Ex.) M4-L6
 L≤T-1 When L+5<T, drilled holes will be blind ones.

Type	Part Number	T Dimension Tolerance Selection	Nominal	A	B	By Material T Dimension Range	T	F	G	
PAA PABA PACA	Standard White Standard Black Conductive Grade	Saw Cut			1 mm Increment		Selection			
		Not available	2H (Horizontal) 2HL (Vertical) 4H 6H	20-500	20-400	PAA PABA PACA	5 6 8 10 12 15 20 25 30	6-491.5 (2H, 4H) 4.5-395.5 (2HL) 6-245.5 (6H)	4.5-395.5 (2H) 6-391.5 (2HL, 4H, 6H)	
		Top / Bottom Milled (2F)			1 mm Increment		T Dimension Configurable: 0.1 mm Increment			
		2FQ 0+0.2 ±0.1 ±0.1	2H (Horizontal) 2HL (Vertical) 4H 6H	20-400	20-250	PAA PABA PACA	5-29	6-391.5 (2H, 4H) 4.5-395.5 (2HL) 6-195.5 (6H)	4.5-245.5 (2H) 6-241.5 (2HL, 4H, 6H)	
		2FN ±0.1 ±0.1					5-29			
		2FM -0.2-0 -0.2-0					5-24			

- Dimension F Specification Range: For 2H and 4H, $d(d_i)+2.5 \leq F \leq A-d(d_i)-5$. For 2HL, $(d_i)/2+2.5 \leq F \leq A-d(d_i)/2-2.5$. For 6H, $d(d_i)+2.5 \leq F \leq (A-d(d_i))-5/2$.
- Dimension G Specification Range: For 2H, $d(d_i)/2+2.5 \leq G \leq B-d(d_i)/2-2.5$. For 2HL, 4H and 6H, $(d_i)+2.5 \leq G \leq B-d(d_i)-5$. (d for through hole, thread insert, d_i for counterbore)
- For Pre-drilled Type, select N (through hole) or Z (counterbore hole), for Thread Insert Type, select M (thread insert) or L (insertion length).

Pre-drilled Hole Nominal Diameter

T	Pre-drilled Hole Nominal Diameter			
	Through Hole	Counterbore Hole	Thread Insert	
	N	Z	M	L
5			3 4	
6-7	3	3	3 4 5 6	
8	4	3 4 5	3 4 5 6 8	
9	5	4 5 6	3 4 5 6 8	
10-11	6	4 5 6	3 4 5 6 8 10	
12-14	8	4 5 6	3 4 5 6 8 10	
15-30	10	4 5 6	3 4 5 6 8 10	

Select from Table 1

Part Number Example

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

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

PABA4H - 500 - 300 - 10 - F300 - G200 - M5 - L10

Part Number Alterations

Part Number - A - B - T - F - G - Bolt Nominal Diameter - (XC / YC)

PAA2H - 50 - 40 - 5 - F10 - G20 - N3 - XC10

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