

PPS Plates

Standard / Abrasion Resistance Grade

PPS excels in heat resistance, dimension stability and chemical resistance, and is less expensive than PEEK.

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

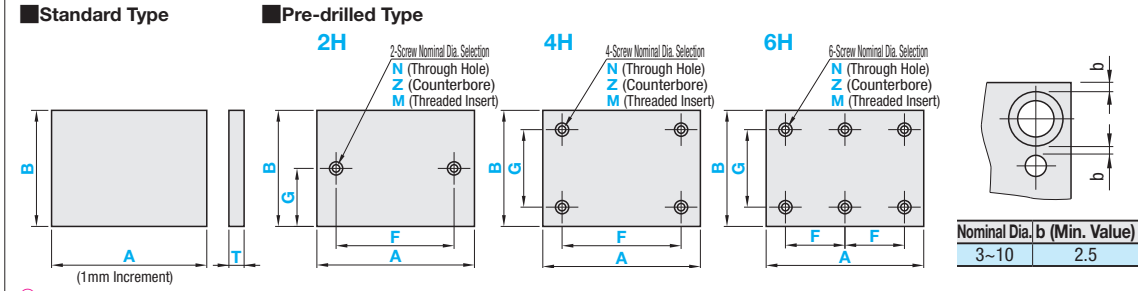


Properties P953

RoHS10

Type	Material / Grade	Color	Operating Ambient Temperature
NPPS	PPS / Standard	Natural Color	Ambient Temperature ~ 190°C
NPMS	PPS / Abrasion Resistance Grade - Sliding	Blue	Ambient Temperature ~ 220°C

PPS Standard Type generates an oxide film on the surface and the color turns to brown when it is exposed to light and heat (direct sunlight, fluorescent light, mercury lamp and high-temperature atmosphere) for long hours. However, it changes little in mechanical properties and physical properties.



A ≥ B

Hole Machining Details		M (Threaded Insert) Details																																																									
N (Through Hole)	Z (Counterbore Hole)	M (Threaded Insert) Details																																																									
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Finish	4 Sides		Upper-lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	✓	Material	~

Material: PPS Polyphenylenesulfide

Standard Type			
Part Number	A	B	T
Type	1mm Increment		Selectable
NPPS (PPS Plates - Standard Grade)	20~500	20~400	6, 10, 15, 20, 25
NPMS (PPS Plates - Abrasion Resistance, Sliding)			10, 20

T	T Dimension Tolerance, Rate of Camber and Torsion		
	NPPS	NPMS	per 1,000mm
6	0~+3	-	1.5% or Less
10	0~+4	0~+1.5	1.0% or Less
15		-	
20		0~+2.5	
25		-	

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

Pre-drilled Type		A		B		T Selection		F		G		Pre-drilled Hole Nominal Dia.					
Part Number	Number of Holes	1mm Increment		1mm Increment		NPPS NPMS		0.5mm Increment		0.5mm Increment		Through Hole	Counterbore Hole		Threaded Insert		
Type												N	Z	M		L	
NPPS (PPS Plates - Standard Grade)	2H 4H 6H	20~500		20~400		6		-		6~491.5 (2H, 4H)		4.5~395.5 (2H)		3	3	3 4 5	(Threaded Insert Length) Select from Table 1
						10		10		-		-		4	3 4 5 6	3 4 5 6 8	
						15		-		-		-		5	4 5 6 8	3 4 5 6 8 10	
						20		20		-		-		6	4 5 6 8	3 4 5 6 8 10	
NPMS (PPS Plates - Abrasion Resistance Grade, Sliding)						25		-		6~245.5 (6H)		6~391.5 (4-Hole, 6-Hole)		8	4 5 6 8	3 4 5 6 8 10	
						-		-		-		10	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 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 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
 NPPS - 500 - 400 - 15

Pre-drilled Type
 Part Number - A - B - T - F - G - Screw Nominal Dia. - L
 NPPS4H - 240 - 130 - 15 - F150 - G40 - M8 - L12
 NPMS4H - 500 - 400 - 20 - F300 - G200 - Z6

Standard Type Unit Price (NPPS)

Type	T	A	Unit Price								
			20~50	51~100	101~150	151~200	201~250	251~300	301~350	351~400	
NPPS	6	20~50	-	-	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-	-	-
	10	20~50	-	-	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-	-	-
15	20~50	-	-	-	-	-	-	-	-	-	
	51~100	-	-	-	-	-	-	-	-	-	
	101~150	-	-	-	-	-	-	-	-	-	
	151~200	-	-	-	-	-	-	-	-	-	
	201~250	-	-	-	-	-	-	-	-	-	
	251~300	-	-	-	-	-	-	-	-	-	
20	20~50	-	-	-	-	-	-	-	-	-	
	51~100	-	-	-	-	-	-	-	-	-	
	101~150	-	-	-	-	-	-	-	-	-	
	151~200	-	-	-	-	-	-	-	-	-	
	201~250	-	-	-	-	-	-	-	-	-	
	251~300	-	-	-	-	-	-	-	-	-	
25	20~50	-	-	-	-	-	-	-	-	-	
	51~100	-	-	-	-	-	-	-	-	-	
	101~150	-	-	-	-	-	-	-	-	-	
	151~200	-	-	-	-	-	-	-	-	-	
	201~250	-	-	-	-	-	-	-	-	-	
	251~300	-	-	-	-	-	-	-	-	-	

Standard Type Unit Price (NPMS)

Type	T	A	Unit Price								
			20~50	51~100	101~150	151~200	201~250	251~300	301~350	351~400	
NPMS	10	20~50	-	-	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-	-	-
	20	20~50	-	-	-	-	-	-	-	-	-
		51~100	-	-	-	-	-	-	-	-	-
		101~150	-	-	-	-	-	-	-	-	-
		151~200	-	-	-	-	-	-	-	-	-
		201~250	-	-	-	-	-	-	-	-	-
		251~300	-	-	-	-	-	-	-	-	-

Hole Machining Charge

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

Pre-drilled Type Price = Standard Type Unit Price + Hole Machining Charge

Alterations Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC, CRA...etc.)
 NPPS - 200 - 100 - 15 - CRA10 - CRB10
 NPMS4H - 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	YC
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 Applicable only when standard type circular sawing, upper-lower surface milling, etc. (2F) is selected.	Cuts any corners. 5 ≤ Corner Cut ≤ 50 5mm Increment (Ex.) When the corners of A and D are cut by C5→ CCA5-CCD5 Applicable only when standard type circular sawing, upper-lower surface milling, etc. (2F) is selected.	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.