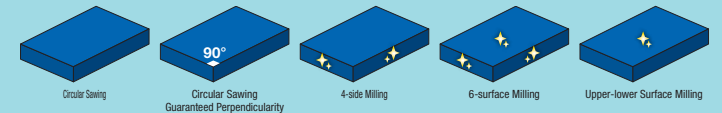




MC Nylon[®] Plates

Standard / Sliding / High Strength / Conductivity / Weather Resistance Grade



MC Nylon[®] is the most general material in engineered plastics and is used for various industrial purposes. For Finishing, Circular Sawing and Milling are available.

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

Standard Type

Properties P.953

For Plastic Blocks, see P.1024.

Type	Grade / Material	Color	Operating Ambient Temperature	Dimension Tolerance of A and B			T Dimension Tolerance, Rate of Camber and Torsion		
				T	A, B Unit: mm	A, B Dimension Tolerance	T	T Dimension Tolerance	Rate of Camber and Torsion per 1,000mm
MCA	Standard / MC901	Blue	-40~120°C	5~30	~99	±0.5	5, 7, 10	0~+1.5	1.2% or Less
MCA-G	Standard Thick Type / MC901	Ivory			100~250	±0.75	12, 15, 20	0~+2.0	1.0% or Less
MCAW	Standard / MC900NC	Ivory	Ambient Temp. -150°C	40~100	251~	±1.0	25, 30	0~+3.0	0.4% or Less
MCAS	Sliding / MC703HL	Purple			40, 50, 60	0~+5.0	70, 80, 90, 100	0~+5.0	0.4% or Less
MCAY	High Strength / MC602ST	Dark Brown	Ambient Temp. -120°C						
MCAPS	Weather Resistance / MC801	Dark Gray	Ambient Temp. -120°C						
MCCA	Conductivity CDR2 / MC501CDR2	Black	Ambient Temp. ~120°C						
MCDA	Antistatic CDR6 / MC501CDR6	Black	Ambient Temp. -150°C						
MCEA	Antistatic / Heat Resistant CDR9 / MC301CDR9	Black	Ambient Temp. -150°C						

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	Width Parallelism		Perpendicularity of Reference Plane	
	per 100mm			
4-side Milling (4F)	0.1		0.1	
6-surface Milling (6F)	0.1		0.1	

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

Standard Type		Part Number		Dimension Range by Material	A	B	T
Type	Finish Symbol Selection	T Dimension Tolerance	A, B Dimension Tolerance				
Circular Sawing							
				MCA	20~500	20~400	5, 7, 10, 12, 15, 20, 25, 30
				MCA-G	301~500	301~500	40, 50, 60
				MCEA	20~500	20~400	10, 12, 15, 20, 25
				Others			5, 7, 10, 12, 15, 20, 25, 30
Guaranteed Perpendicularity of Circular Saw Cuts (NT)							
				MCEA	20~500	20~400	10, 12, 15, 20, 25
				Others			5, 7, 10, 12, 15, 20, 25, 30
4-side Milling (4F)							
				MCEA	10~400	10~200	10, 12, 15, 20, 25
				Others			5, 7, 10, 12, 15, 20, 25, 30
6-surface Milling (6F)							
				MCEA	10~400	10~200	10~24
				Others			5~29
Upper-lower Surface Milling (2F)							
				MCEA	20~400	20~250	10~24
				Others			5~29

Alterations	Part Number	A	B	T
Circular Sawing	MCA	300	200	40
Guaranteed Perpendicularity of Circular Saw Cuts	MCANTQ	200.5	100.5	10
4-side Milling	MCA4FN	150.5	100.3	15
6-surface Milling	MCA6FMM	100.3	90.5	10.5
Upper-lower Surface Milling	MCA2FQ	80	50	5

Alterations	Part Number	A	B	T	(CRA... etc.)
	MCA	300	200	5	CRA10

Alterations	Corner Radius		Corner Cut	
	CRA	CRB	CCA	CCB
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-surface milling or 6-surface milling. ⊗ Not applicable to T40, 50 and 60.		Cuts any corners. 5 ≤ Corner Cut ≤ 50 10≤A-C or 10≤B-C 5mm Increment (Ex.) When the corners of A and D are cut by C5→ CCA5-CCD5 ⊗ Not applicable to 4-surface milling or 6-surface milling. ⊗ Not applicable to T40, 50 and 60.	

Pre-drilled Type

Properties P.953

Type	Grade / Material	Color	Operating Ambient Temperature	Dimension Tolerance of A and B			T Dimension Tolerance, Rate of Camber and Torsion		
				T	A, B Unit: mm	A, B Dimension Tolerance	T	T Dimension Tolerance	Rate of Camber and Torsion per 1,000mm
MCA	Standard / MC901	Blue	-40~120°C	5~30	~99	±0.5	5, 7, 10	0~+1.5	1.2% or Less
MCAW	Standard / MC900NC	Ivory			100~250	±0.75	12, 15, 20	0~+2.0	1.0% or Less
MCAS	Sliding / MC703HL	Purple	Ambient Temp. -150°C	40~100	251~	±1.0	25, 30	0~+3.0	0.4% or Less
MCAY	High Strength / MC602ST	Dark Brown			40, 50, 60	0~+5.0	70, 80, 90, 100	0~+5.0	0.4% or Less
MCAPS	Weather Resistance / MC801	Dark Gray	Ambient Temp. -120°C						
MCCA	Conductivity CDR2 / MC501CDR2	Black	Ambient Temp. ~120°C						
MCDA	Antistatic CDR6 / MC501CDR6	Black	Ambient Temp. -150°C						
MCEA	Antistatic / Heat Resistant CDR9 / MC301CDR9	Black	Ambient Temp. -150°C						

2H

2HL

4H

6H

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

Screw Nominal Dia.	N (Through Hole)		Z (Counterbore Hole)		M (Threaded Insert)	
	d	h	d	h	d	h
3	3.5	4.5	3.5	4.5	3	4
4	4.5	5.5	4.5	5.5	4	5
5	5.5	6.5	5.5	6.5	5	6
6	6.5	7.5	6.5	7.5	6	7
8	8.5	9.5	8.5	9.5	8	9
10	10.5	11.5	10.5	11.5	10	11

Pre-drilled Type		Part Number		A	B	T Dimension Range by Material	T	F	G
Type	T Dimension Tolerance	Number of Holes	Number of Holes						
MCA	(Standard, Blue)	Not available	2H (Horizontal)	20~500	20~400	MCEA	10, 12, 15, 20, 25	6~491.5 (2H, 4H)	4.5~395.5 (2H)
MCAW	(Standard, Ivory)		2HL (Vertical)						
MCAS	(Sliding)		4H						
MCAY	(High Strength)		6H						
MCAPS	(Weather Resistance)	Upper-lower Surface Milling (2F)	1mm Increment			Others	5, 7, 10, 12, 15, 20, 25, 30	6~245.5 (6H)	6~391.5 (2HL, 4H, 6H)
MCCA	(Conductivity CDR2)	2FQ 0~+0.2 2FN ±0.1 2FM -0.2~0	2H (Horizontal)	20~400	20~250	MCEA	10~24	6~391.5 (2H, 4H)	4.5~245.5 (2H)
MCDA	(Antistatic CDR6)		2HL (Vertical)						
MCEA	(Antistatic / Heat Resistant CDR9)		4H						
			6H			Others	5~29	6~195.5 (6H)	6~241.5 (2HL, 4H, 6H)

T Dimension	Pre-drilled Hole Nominal Dia.			
	Through Hole		Threaded Insert	
	N	Z	M	L
5~6	3	-	3 4	(Threaded Insert Length) Select from Table 1
7~9	4	3 4	3 4 5 6	
10~14	5	4 5 6	3 4 5 6 8 10	
15~30	6	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, $d(d1)+2.5 \leq G \leq B-d(d1)-5$.
 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: Part Number - A - B - T - F - G - Screw Nominal Dia. - L

MCA4H - 200 - 155 - 5 - F160 - G120 - N4

MCDA4H - 500 - 300 - 10 - F300 - G200 - M5 - L7.5

Alterations: Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC - YC)

MCA2H - 50 - 40 - 5 - F10 - G20 - N3 - XC10

Alterations	Hole Position from Left		Hole Position from Bottom	
	XC	YC	XC	YC
Code	XC		YC	
Spec.	XC = 0.5mm Increment ⊗ (2H, 4H Type) $d(d1)/2+2.5 \leq XC \leq A-F-d(d1)/2-2.5$ ⊗ (6H Type) $d(d1)/2+2.5 \leq XC \leq A-2F-d(d1)/2-2.5$		YC = 0.5mm Increment ⊗ $d(d1)/2+2.5 \leq YC \leq B-d(d1)/2-2.5$ ⊗ Not available for 2H.	

2-993

2-994