

## FPC Rigid-Flex PCB Technics Capacity

No.	Item	Description	DataSheet
1	FPC Main material	Brand	Taiflex、Graceth、SY
2	PCB Material	Brand	SY、ITEQ、KB
3	Texture	Texture Brand	PI、PET
4	Cover Film	Brand	Taiflex、Graceth、SY
5	Max Layers	LAYER	1-24layers (sample) 、1-12layers(manufacture)
6	Finish Board thickness	mm	0.25-6.0mm(sample) Rigid - Flex PCB 0.25-6.0mm
7	Min Pattern Width / Spacing	mm	0.05mm/0.05mm
8	Max finish board size	mm	230*450mm
9	Finish Board thickness tolerance	mm	± 50.05mm
10	PP Thickness	um	12.5um 、 25um 、 50um
11	Copper thickness	um	12um 、 18um 、 36um 、 70um
12	Stiffener materail	Variety	FR4/PI/PET/SUS/PSA
13	Surface treatment	Variety	ENIG、Immersion tin、OSP、immersion silver、plating gold
14	Min hole size	mm	Mechanical Hole : 0.15mm 、 Laser Hole0.1mm

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15	Hole tolerance	mm	NPTH:±0.05mm、PTH:±0.075mm
16	Cover film color	Variety	Yellow、Black
17	PI thickness	mil	0.5mil、0.7mil、0.8mil、1mil、2mil
18	Max number of layers of FPCB		1-8layers
19	Min finished size	mm	5mm*8mm
20	Min pad	mm	inner layer (5mil)、outer layer (4mil)
21	Stiffener min size	mm	4mm×5mm
22	Stiffener max size	mm	32mm×32mm
23	Stiffener alignment accuracy	mm	±0.075mm
24	Cover minimum opening size	mm	0.6×0.6mm(steeling tooling)、0.5×0.5mm(Precision tooling)
25	Minimum opening spacing for covering film	mm	0.5mm(Precision tooling)、0.2mm (Laser Routing)、0.15mm(Normal drilling)
26	Coating film overflow amount (unilateral)	mm	Normal0.08-0.12mm、Limitation0.03mm
27	Min diameter of gold finger semicircle hole	mm	0.25mm, Normal value0.3mm
28	Rigid-Flex PCB: Peel-off strength	N	1.4N
29	Rigid-Flex PCB: Planeness	um	Less than 15um before baking; less than 30um after baking

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30	Rigid-Flex PCB: thermal shock	℃	288℃ (3 times within 10 seconds)
31	Rigid-Flex PCB: W/B gold wire pull	g	> 6g
32	Rigid-Flex PCB: min.board thickness	mm	FPCB 0.1mm、4Layers 0.3mm、6Layers 0.5mm、8Layers 0.6mm、10Layers0.8mm