1-Layer Flex - 0,06mm 18µm - without adhesive



	coverlay	13 µm	Coverlay
	adhesive	12 µm	Adhesive
Top L1	outer copper	18 µm	Copper
	polyimid	13 µm	Polyimid
	Total finished thickness:	**0,06 mm**	
	Tolerance ±	+5%/-10%	
	Maximum thickness	0,06 mm	
	Minimum thickness	0,05 mm	

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Please note that adhesive thicknesses may be slightly lower after processing.

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1-Layer Flex - 0,11mm 35µm - without adhesive



	coverlay	25 µm	Coverlay
	adhesive	20 µm	Adhesive
Top L1	outer copper	35 µm	Copper
	polyimid	25 µm	Polyimid
	Total finished thickness:	**0,11**	**mm**
	Tolerance ±	+5%/-10%	
	Maximum thickness	0,11	mm
	Minimum thickness	0,09	mm

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Stack-Up - Flexible Printed Circuits

1-Layer Flex - 0,13mm 35µm with adhesive

Standard 1L online

	coverlay	25 µm	Coverlay
	adhesive	20 µm	Adhesive
Top L1	outer copper	35 µm	Copper
	adhesive	20 µm	Adhesive
	polyimid	25 µm	Polyimid
	Total finished thickness:	**0,13 mm**	
	Tolerance ±	+5%/-20%	
	Maximum thickness	0,13 mm	
	Minimum thickness	0,10 mm	

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2-Layer Flex - 0,12mm 28µm - without adhesive



	coverlay	13 µm	Coverlay
	adhesive	12 µm	Adhesive
Top L1	outer copper	28 µm	Copper
	polyimid	13 µm	Polyimid
Bottom L2	outer copper	28 µm	Copper
	adhesive	12 µm	Adhesive
	coverlay	13 µm	Coverlay

Total finished thickness:	**0,12 mm**
Tolerance ±	+5%/-10%
Maximum thickness	0,12 mm
Minimum thickness	0,11 mm

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2-Layer Flex - 0,13mm 28µm - without adhesive

Standard 2L online

	coverlay	13 µm	Coverlay
	adhesive	12 µm	Adhesive
Top L1	outer copper	28 µm	Copper
	polyimid	25 µm	Polyimid
Bottom L2	outer copper	28 µm	Copper
	adhesive	12 µm	Adhesive
	coverlay	13 µm	Coverlay



Total finished thickness:	**0,13 mm**
Tolerance ±	+5%/-10%
Maximum thickness	0,14 mm
Minimum thickness	0,12 mm

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2-Layer Flex - 0,21mm 35µm - without adhesive, thick Copper



	coverlay	25 µm	Coverlay
	adhesive	20 µm	Adhesive
Top L1	outer copper	35 µm	Copper
	polyimid	50 µm	Polyimid
Bottom L2	outer copper	35 µm	Copper
	adhesive	20 µm	Adhesive
	coverlay	25 µm	Coverlay

Total finished thickness:	**0,21 mm**
Tolerance ±	+5%/-10%
Maximum thickness	0,22 mm
Minimum thickness	0,19 mm

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2-Layer Flex - 0,17mm 28µm with adhesive

Standard 2L online



	coverlay	13 µm	Coverlay
	adhesive	12 µm	Adhesive
Top L1	outer copper	28 µm	Copper
	adhesive	20 µm	Adhesive
	polyimid	25 µm	Polyimid
	adhesive	20 µm	Adhesive
Bottom L2	outer copper	28 µm	Copper
	adhesive	12 µm	Adhesive
	coverlay	13 µm	Coverlay

Total finished thickness:	**0,17 mm**
Tolerance ±	+5%/-20%
Maximum thickness	0,18 mm
Minimum thickness	0,14 mm

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4-Layer Flex - 0,39mm 35µm/18µm

	coverlay		25 µm Coverlay
	adhesive		20 µm Adhesive
Top L1	outer copper		35 µm Copper
	adhesive		20 µm Adhesive
	polyimid		25 µm Polyimid
	adhesive		20 µm Adhesive
L2	inner copper		18 µm Copper
	adhesive		20 µm Adhesive
	coverlay		25 µm Coverlay
	adhesive		20 µm Adhesive
L3	inner copper		18 µm Copper
	adhesive		20 µm Adhesive
	polyimid		25 µm Polyimid
	adhesive		20 µm Adhesive
Bottom L4	outer copper		35 µm Copper
	adhesive		20 µm Adhesive
	coverlay		25 µm Coverlay

Total finished thickness: 0,39 mm

Tolerance ± +5%/-20%

Maximum thickness 0,41 mm

Minimum thickness 0,31 mm

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4-Layer Flex - 0,31mm 35µm/18µm without adhesive

	coverlay	25 µm	Coverlay
	adhesive	20 µm	Adhesive
Top L1	outer copper	35 µm	Copper
	polyimid	25 µm	Polyimid
L2	inner copper	18 µm	Copper
	adhesive	20 µm	Adhesive
	coverlay	25 µm	Coverlay
	adhesive	20 µm	Adhesive
L3	inner copper	18 µm	Copper
	polyimid	25 µm	Polyimid
Bottom L4	outer copper	35 µm	Copper
	adhesive	20 µm	Adhesive
	coverlay	25 µm	Coverlay

Total finished thickness: 0,31 mm

Tolerance ± +5%/-15%

Maximum thickness 0,33 mm

Minimum thickness 0,26 mm

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