

# Super Series FPC Materials / Super Thin FPC Materials

## FCCL and Coverlay which Realized the Highest Flexural Endurance and Flexibility

### Features and Benefits

- 4um-thick Base Film Achieves Excellent Flexural Endurance.
- It can be Mounted in learn Space with it Bent.
- Excellent Alkaline Resistance.
- Cope with Halogen Antimony Free.
- There is no supply worry due to shortage of material because of Polyimide Free.

### Applications

- Multilayer FPC and Flex-Rigid Compact Digital Device.
- HDD and Digital Disc Player/Recorder
- New Type Cellular Phone for example Slide type.
- Ultra Thin Connector

### Super Thin FCCL + Coverlay

Coverlay	Base Film = 4 Adhesion = 8 Copper Clad = 5
FCCL	Adhesion = 8 Base Film = 4

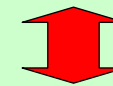
**Total 29um**



### Standard FCCL + Coverlay

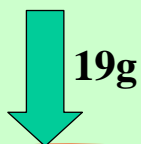
Coverlay	Base Film = 12.5 Adhesion = 15 Copper Clad = 12
FCCL	Adhesion = 10 Base Film = 12.5

**Total 62um**

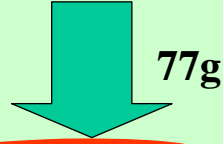


### Facility of Bending

#### Super Thin FCCL



#### Standard FCCL



1.0mm



Coverlay		TFA-477 4/10 Film=4um Adhesion=10um
FCCL ( Single side)		TLF-421 MW 5/4 Copper Clad=5um Film=4um Adhesion=10um
Folding Endurance (MIT Method) MD / TD	R=0.38mm	3517 / 2523
	R=0.2mm	391 / 330
	R=0.1mm	53 / 49
Heat Resistance (288C 10sec.)		OK