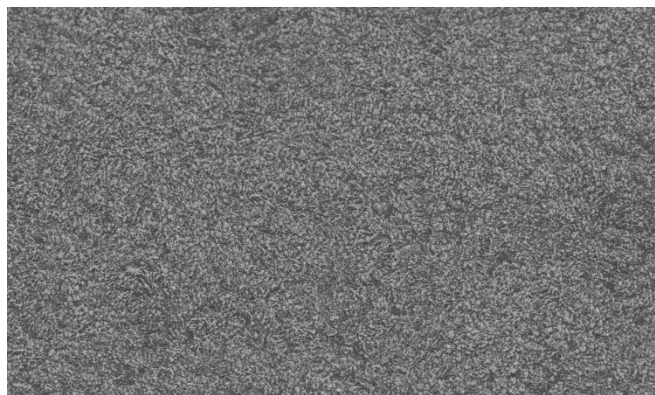
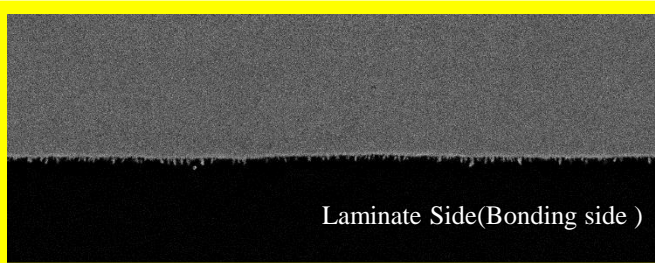


18µm untreated-side Foil SEM × 1,500



18µm treated-side Foil SEM × 1,500



Laminate Side(Bonding side)

18µm Foil Cross Section SEM × 1,500

Composition :

Resist side

– Cross Section :



Laminate Side(Bonding side)

– Resist/ Bonding side Color : Pink/ Pink

Application:

- 5G high frequency transmission and Internet of Things (IoT), in-vehicle equipment, ADAS and artificial intelligence.
- Additional alternatives for ultra-high frequencies (> 20 GHz) are our extremely smooth FL451.
- Material: LCP/ MPI film

Feature:

- Excellent SI performance and PIM
- High Elongation and flexibility after annealing
- Fine copper nodules and low roughness characteristics
- Provide good fine line etch capability
- Good peel strength and dimensional stability.
- This product has excellent heat resistance and weather resistance.

Type	FL451		Thickness s (µm)	Physical Properties							Roughness(µm)	
				Area Wt. (g/m ²)	Tensile(kg/mm ²)		Elongation(%)		Peel Strength (FR4)			
	(oz)	(µm)	(g/m ²)		RT	180°C	RT	180°C	(lb/inch)	kg/cm	Ra(s/s)	Rz(m/s)
FL451 (Pink Color)	Toz	12µ	12±1.5	107±3	≥30	≥17	≥4	≥3	≥3.0	≥0.536	≤0.3	≤1.0
	Hoz	18µ	18±2.0	153±3	≥30	≥17	≥7	≥5	≥4.0	≥0.714	≤0.3	≤1.0
	1oz	35µ	35±3.5	285±5	≥30	≥17	≥12	≥6	≥5.0	≥0.893	≤0.3	≤1.0

※上述表列為代表性數據非保證值 (This is representative data, not guarantee.)