



Co-Tech Products

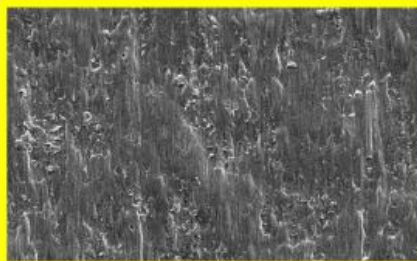
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# CO-TECH PRODUCTS

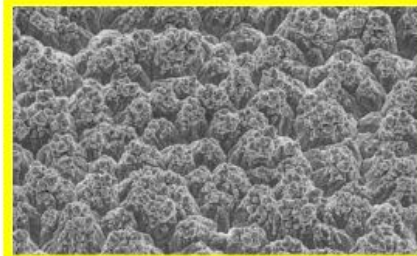


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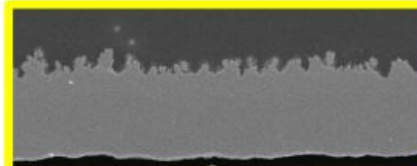
## LP310



3.5µm untreated-side Foil SEM × 1,500



3.5µm treated-side Foil SEM × 1,500



3.5µm Foil Cross Section SEM × 1,000

### Composition :

- Cross Section :  Resist side  
Laminate Side(Bonding side)
- Resist/ Bonding side Color : Pink/ Pink

### Application:

Automotive , power supplies, solar panels and High Tg/Mid. Loss PP substrate.

### Feature:

1. Suitable for lower roughness and high power material.
2. Arsenic free foil which suitable for halogen free material.
3. With excellent peel and etching ability & anti-undercut ability at high Tg/Mid. Loss PP material.
4. With excellent anti-oxidation & shelf life.
5. With excellent etching factor at HDI substrate.
6. Thin copper foil stable production capacity, can fully supply customer needs.

Type	LP310		Thickness (µm)	Area Wt. (g/m <sup>2</sup> )	Physical Properties				Roughness(µm)			
	(oz)	(µm)			Tensile(kg/mm <sup>2</sup> )		Elongation(%)		Peel Strength FR4*1		Ra(s/s)	Rz(m/s)
LP310 (Pink Color)	Qoz	9µ	9±1.0	80±3	≥33	≈17	≈2	≈2	≈4.0	≈0.71	≈0.43	≈5.0
	Toz	12µ	12±1.5	107±3	≈33	≈17	≈3	≈3	≈5.5	≈0.98	≈0.43	≈5.5
	Joz	15µ	15±2.0	125±3	≈33	≈17	≈5	≈3	≈6.5	≈1.16	≈0.43	≈6.5
	Hoz	18µ	18±2.0	153±5	≈33	≈17	≈5	≈3	≈7.0	≈1.25	≈0.43	≈7.0
	0.7oz	25µ	25±3.0	220±6	≈30	≈17	≈6	≈4	≈8.0	≈1.43	≈0.43	≈9.0
	1oz	35µ	35±3.5	285±6	≈30	≈17	≈10	≈5	≈9.0	≈1.61	≈0.43	≈10.0
	1.2oz	40µ	40±3.5	355±8	≈30	≈17	≈10	≈5	≈9.0	≈1.61	≈0.43	≈11.0
	1.5oz	53µ	53±5.0	472±10	≈28	≈15	≈10	≈6	≈10.0	≈1.79	≈0.43	≈13.0
	2oz	70µ	70±7.0	580±15	≈26	≈15	≈10	≈6	≈12.0	≈2.14	≈0.43	≈14.0
	3oz	105µ	105±10.0	880±15	≈26	≈15	≈12	≈8	≈14.0	≈2.50	≈0.43	≈15.0
4oz	140µ	140±14.0	1180±20	≈26	≈15	≈12	≈8	≈16.0	≈2.85	≈0.43	≈17.0	

\* FR4\*1 : Tg=140°C ※ This is representative data, not guarantee.

The best application of the copper foil manufacturer & service provider

2019/07/10

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