LPT-YE

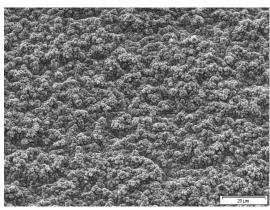
Technical Characteristics

LPT-YE is an advanced matte-sided treated product based on a unique low profile base foil.

The foil is characterized by superior elastic modulus which is also preserved after the typical process for chip card modules. High mechanical properties ensure a perfect flatness of the foil inside the chip window.

The inorganic YE protection on the shiny foil surface ensures its superior resistance to oxidation in warm and humid environments.

The product is designed for IC card modules.



Treatment side of 32 µm LPT-YE foil

Typical average properties*

LPT-YE									
MEASURED PARAMETERS		UNITS	PRODUCT GAUGE				IPC		
Nominal Thickness		μm	18	32	35	70	Specification	Test Method	
		oz.	1/2	1	1	2	IPC-4562A	IPC-TM-650	
Area Weight		oz/ft²	0.49	0.93	1.07	1.98	(a)1.2.5, table 1-1		
		g/m²	150	283	327	603	(b)3.4.4	2.2.12	
		g/254 in ²	24.6	46.4	53.6	98.8	(c)4.6.3		
Untreated Side Roughness (Ra)			0.20 - 0.40 (8 - 16)				3.5.6		
Treated Side Roughness Rz	ISO	μm (μ.inch)		≤ 6 (≤ 236)		≤ 7.0 (≤ 276)	3.4.5	2.2.17	
	JIS		≤ 5 (≤ 197)			≤ 5.8 (≤ 228)	-		
Tensile Strength Transverse at RT		MPa (k.Lb/in²)	≥ 379 (≥ 55)				3.5.1	2.4.18	
Tensile Strength Transverse at RT (aft. 2 hrs at 160 °C)			≥ 372 (≥ 54)				-		
Elongation Transverse at RT		%	≥ 8	≥	10	≥ 15	3.5.3		
Yield Strength at RT (after 2 hrs @ 160 °C)		MPa (k.Lb/in²)	≥ 248 (≥ 36) ≥ 207 (≥ 30			≥ 207 (≥ 30)	-		
Peel Strength (RT) FR4 ^[1]		N/mm (Lb/in)	≥ 1.0 (≥ 5.7)	≥ 1.4	(≥ 8.0)	≥ 1.6 (≥ 9.1)	3.5.4	2.4.8	
High Temp. Tarnish Resistance		-	120 min @ 180 °C in air: pass				-		
Solderability		-	Complies with IPC specification				3.6.3	2.4.12	

^[1] Laminate construction with thickness ≥ 0.5 mm

Circuit Foil Luxembourg

Circuit Foil Trading Inc. (USA)

(Zhangjiagang Free Trade Zone) Phone: +(86) 512 58 32 21 82 80 03 Fax: +(86) 512 58 32 21 82 81

Circuit Foil Asia Pacific Co. Ltd.

Circuit Foil Asia Pacific Ltd. (HK)

Phone: +(352) 95 75 51 1 Fax: +(352) 95 75 51 249 Fax: +(352) 90 70 01 2-0 E-mail: office@circuitfoil.com Phone: +(1) 215 887 7255 Fax: +(1) 215 887 6911 E-mail: cftinc@circuitfoil.com

Phone: +(852) 39 71 05 90 Fax: +(852) 39 71 05 91 E-mail: cfap@circuitfoil.com Fax: +(80) 312 30 32 21 32 8 E-mail: cfapzjg@circuitfoil.com

^{*} All of this Technical Information has been determined with due care and thoroughness. However, because the conditions of use and process and application technologies employed can substantially vary, the provided data and figures can only serve as non-binding guidelines. They do not constitute a guarantee that the purchased item will possess certain attributes. For this reason, no liability whatsoever can be assumed for them. The buyer is obliged to check the suitability of all supplied products.

