

ED Copper Foil

Product description

ED Copper foil is a high purity IPC Grade 3 electrodeposited HTE copper foil.

The outer face of the foil is semi-matt and the inside surface is matt grey. This side has been specially treated to optimize adhesion to Pre-Preg. The foil is coated with a chemical antitarnish finish to protect the surfaces against oxidation and corrosion.

Application

ED Copper foil is used for foil lamination of multilayer printed circuit boards.

The enhanced elongation property of CIMCU copper foil is beneficial for thermal reliability of multilayer designs.

Ordering information

ED Copper foil is available from Holders in standard thicknesses of 18, 35 and 70 μ m. Other thicknesses and/or copper foil types are available on request.

ED Copper foil is supplied in production ready cut panels to customers requirements, in packs of 100 pieces.

It can also be supplied, on request, according to customers requirements, with punched tooling holes as required and packaged "shinyshiny" rather than stacked.

Parameter	Unit	Product			IPC	
		18 µm	35 µm	70 µm	Specification IPC 4562	Test method IPC TM-650
Copper Content	%	99,8	99,8	99,8	-	-
Area weight	oz/ft²	1/2	1	2	(a) 1.2.5, table1-1	2.2.12
	g/m²	145 - 153	285 - 295	575 - 585	(b) 3.4.4	
Copper roughness [R _z]	μm	0,2 - 0,4			356 2217	
	µ.inch		8,0 - 16,0		0.0.0 2.2.17	
Treatment roughness [R ₂]	μm	6,0 - 8,0	7,0 - 10,0	9,0 - 12,0	3.4.5	2.2.17
	µ.inch	236 - 315	276 - 394	354 - 472		
RT Tensile Strength [Transverse at RT]	Kg/mm²	32 - 40			3.5.2	2.4.18
HT Tensile Strength [Transverse at 180 °C]	Kg/mm²	> 20			3.5.1	2.4.18
RT Elongation [Transverse at RT °C]	%	3 - 10			3.5.3	2.4.18
HT Elongation [Transverse 180 °C]	%	3 - 10			3.5.3	2.4.18
Peel Strength (RT) on FR-4 ⁽¹⁾	kg/cm²	> 1,4	> 1,8	> 2,1	3.5.4	2.4.8
Anti-Oxidant	-	Good	Good	Good	-	-

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⁽¹⁾ Construction with a thickness of \geq 0,5 mm

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to a variety of conditions, therefore each user of the material should make his own tests to determine the material's suitability for his own particular use. No liability for consequential damage will be accepted in any case. This data-sheet replaces any previous data sheets.

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