



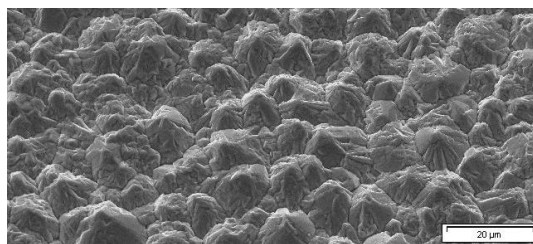
TZA-B

Technical Characteristics

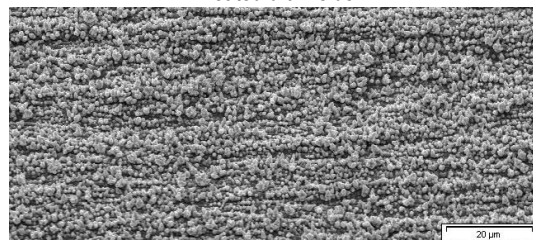
TZA-B style of foil is a so-called “Reverse Treated Foil” with zinc free and arsenic free treatment characterized by enhanced high temperature elongation properties [IPC-Grade 3] and thermally stable microstructure.

Excellent adhesion to a broad range of substrates allows it to be used for the fabrication of laminates for rigid, composite, halogen free and conventional multilayer / mass lamination applications.

Its very low profile treatment makes it very suitable for low and mid loss applications.



Untreated matte side



Treated drum side

Typical average properties*

TZA-B								
MEASURED PARAMETERS		UNITS	PRODUCT GAUGE				IPC	
Nominal Thickness		μm oz.	12 3/8	18 1/2	35 1	70 2	Specification IPC-4562A	Test Method IPC-TM-650
Area Weight		oz/ft ² g/m ² g/254 in ²	0.34 105 17.2	0.50 152 24.9	0.93 283 46.4	1.90 580 95.0	(a)1.2.5, table 1-1 (b)3.4.4 (c)4.6.3	2.2.12
Untreated Matte Side Roughness (Rz)	ISO	μm (μ.inch)	≤ 5.1 (≤ 201)	≤ 6.0 (≤ 236)	≤ 9.0 (354)	≤ 10.0 (394)	-	2.2.17
	JIS		≤ 4.2 (≤ 165)	≤ 5.0 (≤ 197)	≤ 7.5 (≤ 294)	≤ 8.4 (≤ 331)		
Treated Side Roughness (Rz)	ISO	μm (μ.inch)	≤ 5.1 (≤ 201)				3.4.5	-
	JIS		≤ 4.2 (≤ 165)					
Tensile Strength Transverse at RT		MPa (k.Lb/in ²)	≥ 276 (≥ 40)				3.5.1	2.4.18
Tensile Strength Transverse at 180 °C			≥ 138 (≥ 20)					
Elongation Transverse at RT		%	≥ 3	≥ 6		≥ 9	3.5.3	
Elongation Transverse at 180 °C			≥ 2	≥ 3				
Peel Strength Treated Shiny Side (RT) on halogen-free prepreg ^{††}		N/mm (Lb/in)	≥ 0.7 (≥ 4.0)	≥ 0.75 (≥ 4.3)	≥ 0.8 (≥ 4.6)	≥ 1.05 (≥ 6.0)	3.5.4	2.4.8
High Temp. Tarnish Resistance		-	60 min @ 180 °C in air: pass				-	-
Solderability		-	Complies with IPC specification				3.6.3	2.4.12

^{††} Laminated construction with thickness ≥ 0.5 mm

Simplified “oxide” processing. The already roughened untreated matte surface eliminates the need for chemical micro etching prior to oxide processing and the associated etch waste disposal costs.

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* 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.