

CU4000™ and CU4000 LoPro® Electrodeposited Copper Foil

Rogers CU4000™ foil is intended for MLB designs using RO4000® cores and prepreg materials requiring foil bonded outer layers. CU4000 ED foil is a high performance single side treated electrodeposited copper foil with increased mechanical bonding area designed to provide high peel strength on RO4400™ series prepregs. All CU4000 LoPro® foil is reverse treated electrodeposited copper foil. This uses a thin adhesive layer to promote increased bond of smooth copper to dielectric layers, with low conductor loss for reduced insertion at higher frequencies. The thin adhesive layer results in a thickness increase of approximately 0.00035". CU4000 and CU4000 LoPro foils enable simplified registration and reduced fill requirements for prepreg layers when used in foil lamination MLB constructions.

Rogers CU4000 and CU4000 LoPro foils are designated as an IPC-4562 Grade 3, High Temperature Elongation copper foil.



FEATURES AND BENEFITS:

- Enables foil lamination of RO4000 MLB's
- Superior adhesion to RO4400 series prepregs
- Reduces prepreg fill requirements
- Simplifies MLB registration
- Enables HDI and build-up technology

Properties	Typical Values ⁽¹⁾				Units	Condition	Test Method
	CU4000 ED		CU4000 LoPro				
Nominal Thickness	18	35	18	35	µm	-	-
Area Weight	1/2	1	1/2	1	oz/ft ²	-	-
Tensile Strength	48	48	62	58	kpsi	RT	IPC-TM-650, 2.4.18B
	26	26	33	34		180°C	
Elongation	10	14	10	16	%	RT	IPC-TM-650, 2.4.18B
	7	7	8	8		180°C	
Roughness (Rz)	7-10	8-13	2-3	2-3	µm	Matte Side	IPC-TM-650, 2.2.17

⁽¹⁾ Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

Copper Foil Type	Prepregs for Foil Lamination Compatibility
CU4000 ED & CU4000 LoPro	RO4450B™, RO4450F, RO4450T™, RO4460G2™

Standard Thickness	Standard Sheet Size
18µm (1/2 oz) 35µm (1 oz)	CU4000: 24.5" X 18.5" (622 X 470 mm) - quantities available in multiples of 100 sheets. CU4000 LoPro: 24.8" X 18.5" (630 X 470 mm) - quantities available in multiples of 25 sheets.

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