

Teflon woven glass fabric F4B-N / F4B-T

This product is the raw material for the Teflon woven glass fabric copper-clad laminates. Dipping treatment of the Teflon resin on the alkali-free woven glass fabric , drying, baking and sintering , the microwave material is formulated. This product is characterized by some features , such as heat-resistance, insulation, low loss, excellent electrical performance, in-adhesion. The Teflon woven glass fabric is Widely used in electronics, motor, aviation, textile, chemical and food industry ,etc.. In the area of microwave devices ,it can be used as the bond film for the manufacturing of multilayer printed circuit board.

1 . Type of material

(1) Anti-sticking Teflon woven glass fabric : F4B-N ;

(2) Ventilated Teflon woven glass fabric : F4B-T .

2 . Technical Specifications :

Appearance	Smooth and neat surface, uniform glue discharge and mechanical damage.						
Dimension (mm)	Length				A=1□200mm		
	Width				B=900~4000mm		
Thickness □ r(μm)	F4B-N				F4B-T		
	0.08	0.10	0.15	0.40	0.04		0.07
Tolerance	±0.01	±0.015	±0.02	±0.04	±0.004		±0.005
Mechanical, chemical, electrical property	Name		Test condition		Unit		Value
	Tensile strength		Tensile machine		N (±5%)		8
	Operating temperature		In the oven		°C		250 °C for long-term usage , 300 °C for discontinuous usage
	Chemical properties		Dip in the acid, alkali and salt				All inert
	Surface resistance coefficient		Normal temperature		Ω		≥10 ¹²
	Volume resistance coefficient		Normal temperature		Ω.cm		≥1×10 ¹³

	Breakdown voltage	$\square=0.8$	KV	≥ 0.6
		$\square=0.1$	KV	≥ 0.8
		$\square=0.15$	KV	≥ 1.1
		$\square=0.20$	KV	≥ 1.3
		$\square=0.40$	KV	≥ 1.5
Dielectric Constant	1GHZ	ϵ_r	2.7 ± 0.1	
Dissipation Factor	1GHZ	$\text{tg}\delta$	$\leq 2 \square 5 \times 10^{-4}$	



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