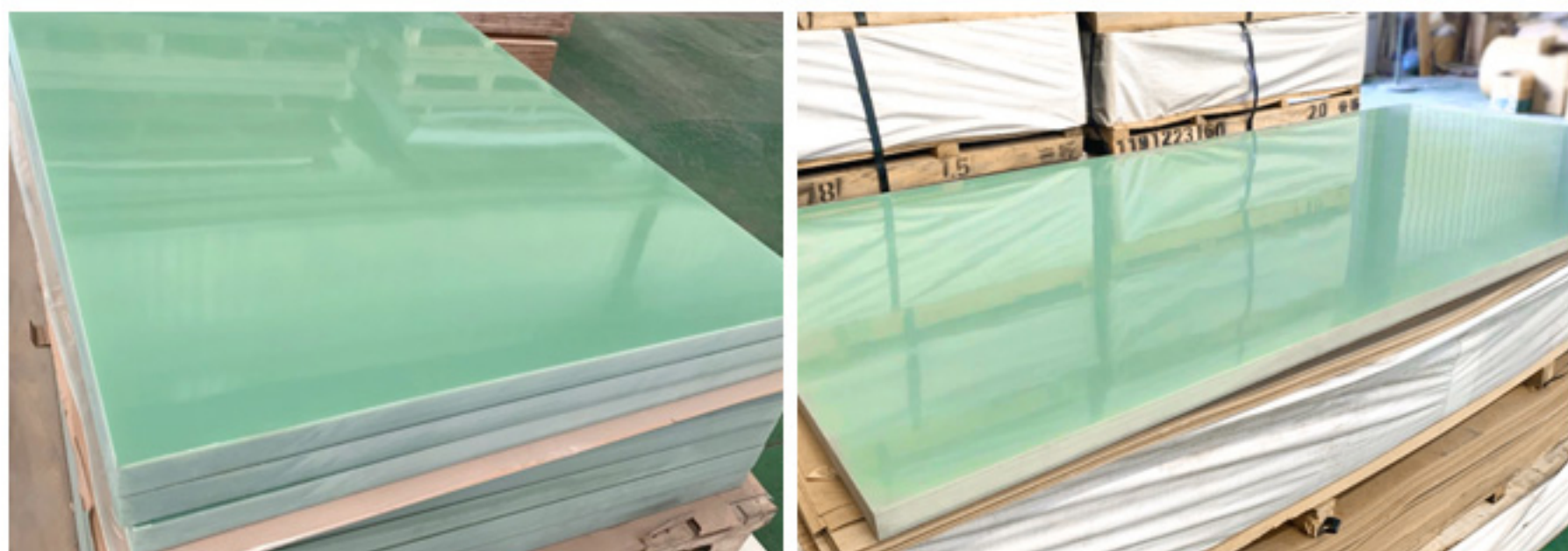


FR4/G10 Glass Fiber Sheet



Product & Introduction

Insulation Grade: B class

Thickness: 0.0079" - 5.9"

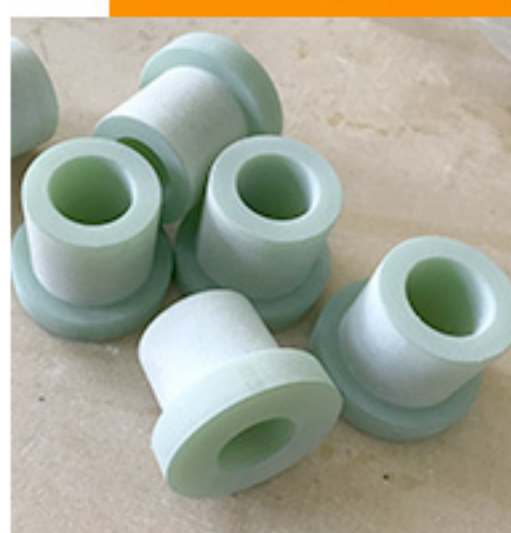
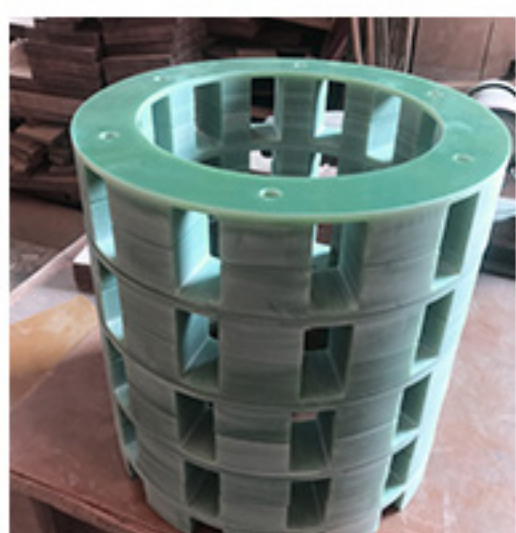
Dimension: 40" x 80", 48" x 80", 48" x 96"

Tolerance Range: International Standard

FR4/G10 Glass Fiber Sheet is a composite sheet material that consists of glass fabric, electrical grade epoxy resin. The epoxy material is extremely strong and stiff, has a low coefficient of thermal expansion, and has outstanding electrical properties. Epoxy resins are among the most versatile and widely used plastics in the electronics field, primarily because water absorption is virtually nil, rendering it an outstanding insulator.

Beyond its electrical insulating properties, epoxy resins exhibit great dimensional stability and superior adhesive properties. FR4/G10 has extremely high mechanical strength, good dielectric loss properties, and good electric strength properties, both wet and dry.

FR4/G10 glass fiber sheet has extremely high mechanical strength, good dielectric loss properties, and good electric strength properties, both wet and dry.



Series of insulating board processing products

Fr4&G10 Data

	Items	Test Method	Unit	Typical Values
Physical Properties	Color	Visual inspection	--	Light green / yellow
	Specific Gravity	IEC 60893-2:2003	g/cm3	1.90- 2.15
	Water absorption	ISO62:2008	%	<0.3
Electrical properties	Electric strength	IEC 60893-2:2003	KV/mm	≥14(3.0mm)
	Electric strength	IEC 60893-2:2003	KV	≥60
	Volume Resistivity	IEC 60093:1980	Ω.m	≥1.0*10 ¹²
	Surface Resistivity	IEC 60093:1980	Ω	≥1.0*10 ¹⁴
	Dielectric constant	IEC 60893-2:2003	--	4.0-5.5
	Dissipation Factor	IEC 60893-2:2003	--	0.04-0.05
	PTI Proof Tracking Index PTI	IEC 60893-2:2003	V	≥200
	Insulation resistance after	IEC 60893-2:2003	Ω	≥5*10 ¹⁰
Mechanical properties	Flexural Strength	IEC 60893 2:2003	Mpa	≥340
	Flexural Strength	IEC 60893 2:2003	KJ/m2	≥60
	Tensile Strength	IEC 60893-2:2003	Mpa	≥300
	Bond Strength	IEC 60893-3-4:2003	N	≥8000
	Compressive Strength	IEC 60893-2:2003	Mpa	≥350
Flame Resistance performance	Temperature Index	IEC 60085:2004	℃	155
	Flame Resistance	IEC 60893-2:2003	-	V-0
	Toxicant(Emission)h alogen etc.)	E662	-	Low
Other properties	Acetone Resistance	boiled	min	30(OK)



Contact Info

Add: No.110-3, Hongrun Road,

Yuhong, Shenyang, China

Web: youdae.com

Email: info@youdae.com