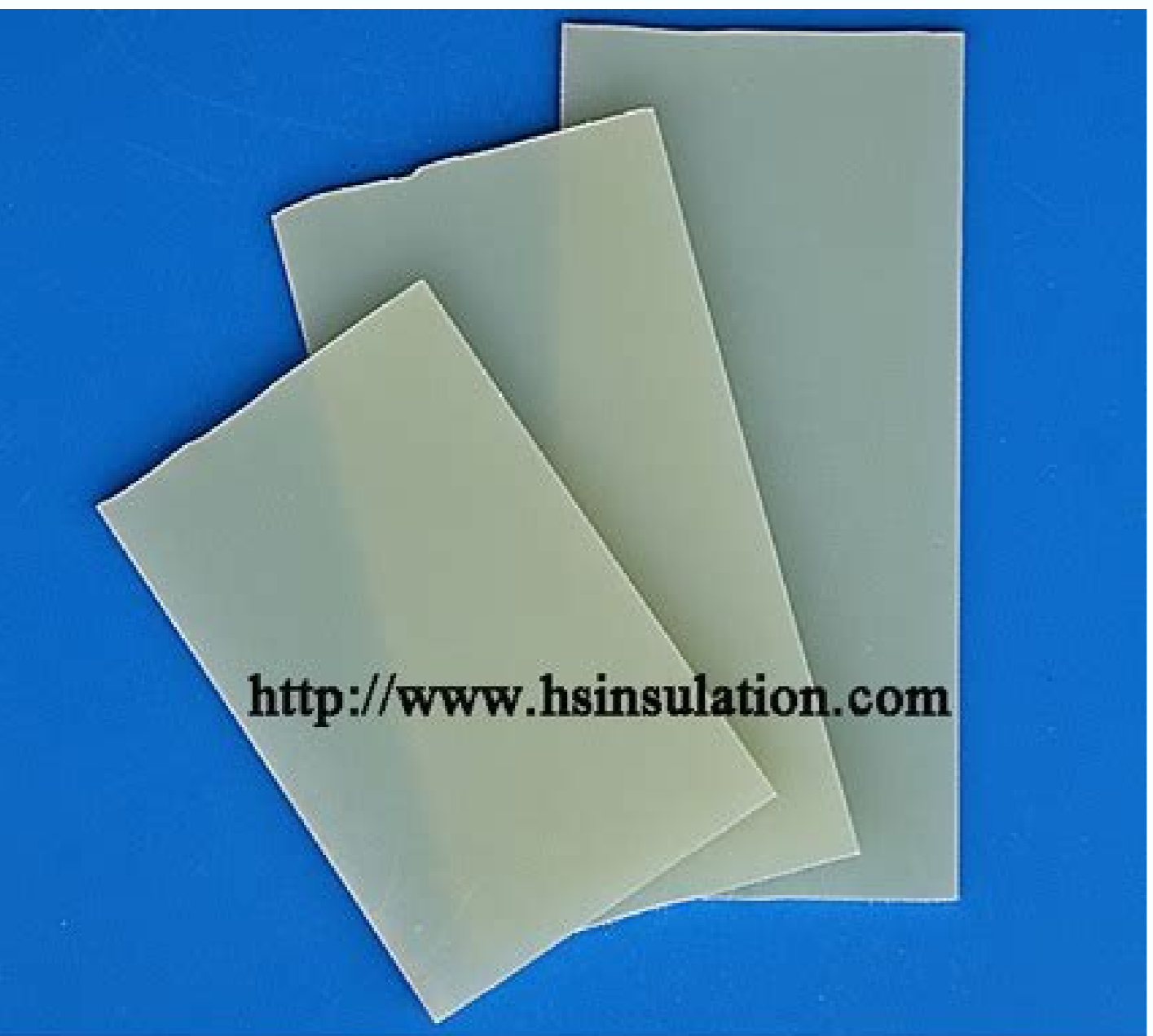
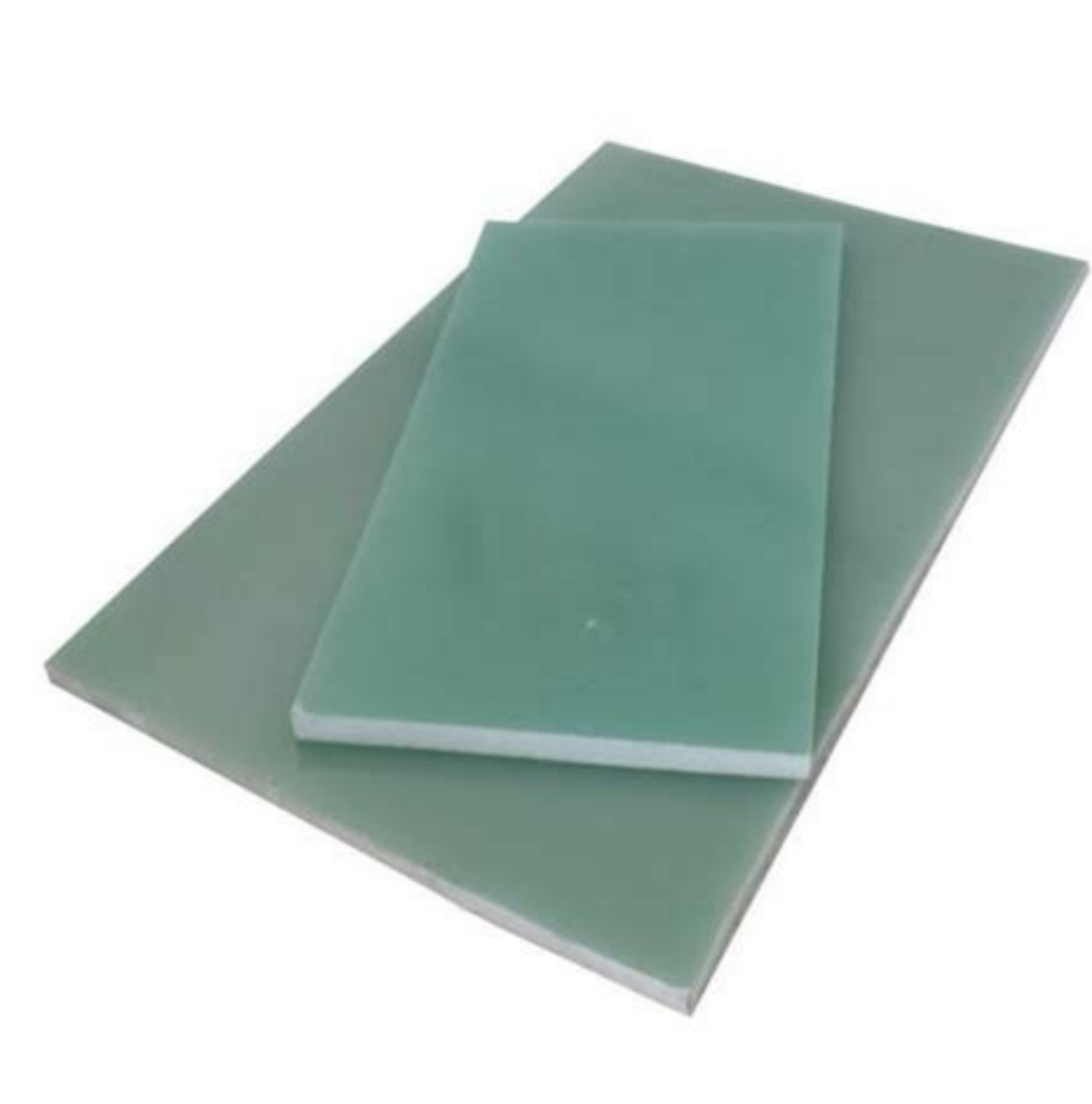


**G10 fr4 glass epoxy sheet**

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Glass epoxy sheet price. What is fr4 epoxy. Glass epoxy sheet uses. What is g10 fr4 material. G10 fr4 glass epoxy sheet uk.

Image not available for Colour: To view this video download Flash Player G-10/FR-4 (GLASS CLOTH / EPOXY RESIN) Phenolics are thermoset resins formed by the polymerization of phenol and formaldehyde, which can then be impregnated with cotton canvas or linen, paper, or glass cloth materials to form industrial laminates. Overall, industrial laminates are dense, strong and durable, moisture resistant, lightweight, and will not soften when heat is reapplied. Typically they have high mechanical and insulating properties. G-10 is made up of a mixture of epoxy resin and glass cloth. G-10 has extremely high mechanical strength and dimensional stability over temperature, low water absorption, and superior electrical properties when both wet and dry. These electrical properties make it the most widely used in the electrical field. G-10's properties are exhibited over a wide range of temperatures and humidities. G-10 is stronger than the other glass-epoxy laminate G-11, but is not as good of an insulator and can't handle quite as high of temperatures. Because of its strength, G-10 is difficult to machine and may require special equipment. G-10/FR-4 is available in sheet, rod, and tube. FR-4 is a fire retardant grade of G-10. G-10 Phenolic meets MIL-I-24768/2 TYPE GEE. FR-4 Phenolic meets MIL-I-24768/27 TYPE GEE-F. Application Terminal boards Washers Sleeves Structural components Parts where size to weight ratio is critical Electrical test equipment Electric rotor insulation Circuit boards Properties Dimensional stability Mechanical strength Good insulator Low water absorption Stable properties over wide range of temperatures and humidities Superior electrical properties in wet and dry conditions Fire retardant (FR-4) Density (lb/in<sup>3</sup>) 3) D792 0.067 0.065 0.065 0.065 Specific Gravity D792 1.85 1.8 1.8 1.8 Water Absorption @ 24 hours (%) D570 0.6 0.1 0.1 0.2 Tensile Strength (PSI) Lengthwise, Crosswise D638 61,600 and 51,100 20,000 and - 45,000 and 38,000 43,000 and 37,000 Flexural Strength (PSI) Lengthwise, Crosswise D790 61,600 and 51,100 30,000 and - 75,000 and 65,000 80,000 and 70,000 Compressive Strength (PSI) D695 65,000 50,000 65,000 63,000 Flexural Modulus (KPSI) Lengthwise, Crosswise D790 2,000 and 1,700 1,600 and - 2,700 and 2,400 3,000 and 2,700 Izod Impact (Notched), ft-lb/in Lengthwise, Crosswise D256 12.5 and 8.5 13.0 and - 14.0 and 12.0 12.0 and 9.0 Rockwell Hardness D785 M115 M105 M110 M112 Coefficient of Thermal Expansion, 10<sup>-5</sup>/°F Lengthwise, Crosswise D696 .83 and 1.00 .72 and .90 .55 and .66 .72 and .83 Continous Service Temp (Operating) °F - 285 430 284 329 Thermal Conductivity, BTU-in/hr-ft<sup>2</sup> °F C177 2 2 2 2 Flammability Rating UL94 VO VO HB Dielectric Strength, Short Term, (Volts/Mil) @ .125" Thick D149 300 350 800 900 Arc Resistance (sec) D495 180 240 100 120 Dielectric Constant at 1 MHz D150 6.3 4.5 5 4.5 Dissipation Factor at 1 MHz D150 0.019 0.018 0.019 0.02 NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted. Fill the quantity to get latest price! Contact SellerAsk for best deal Get Latest PriceRequest a quote Approx. Rs 300 / KilogramGet Latest PriceProduct Details:ShapeSheetResin TypeEpoxyDensityMediumConditionNewColorGreenishTemperature Limit160 degCMaterialEPOXYEpoxy glass fiber sheets are used for its high insulating properties in electrical as well as thermal also and good mechanical properties.FR4 grades offer excellent chemical resistance, flame ratings (UL94-VO) and electrical properties under dry and humid conditions. FR4 also features high flexural, impact, superior mechanical strength and bond strength at temperatures up to 130°C. FR4 is suitable for structural, pc boards and electrical applications.Available in:Epoxy sheet with G10, G11 and FR4, FR5Epoxy rod.Epoxy tube.Application:High electrical insulation with thermal stability.Excellent chemical resistantTerminal board.High voltageCircuit board holders.Additional Information:Item Code: G10-FR4Pay Mode Terms: 1/T (Bank Transfer) Home>Our Products>Glass Epoxy Sheet Providing you the best range of glass epoxy sheet, battery pack epoxy sheets, epoxy fiberglass sheet, epoxy sheet for battery, fr4 sheet and fr4 yellow epoxy sheet 3240 with effective & timely delivery. Glass Epoxy SheetProduct Price: Rs 320 / KilogramGet Best PriceProduct Details:Resin TypeEpoxyCompanyConcordSize40 X 48Thickness1mm, 2mm, 3mm, 5mmDensityMediumIn order to meet precise requirements of patrons, we are highly engrossed in offering an exceptional array of Glass Epoxy Sheet in the domestic as well as global market. The offered array is manufactured by making use of best quality basic material and high tech tools in adherence with international quality standards and guidelines. Features: • Shear Strength • Water Absorption • Temperature limitGet Best QuoteRequest A CallbackBattery Pack Epoxy SheetsProduct Price: Rs 270 / KilogramGet Best PriceMinimum Order Quantity: 80 KilogramProduct Details:Thickness0.5-50 mmColorYellow, GreenSize40/48 cm and many more size availableDensityHighShapeSquare, RectangularCountry of OriginMade in IndiaAdditional Information: Production Capacity: As per requirementGet Best QuoteRequest A CallbackEpoxy Fiberglass SheetProduct Price: Rs 275 / KilogramGet Best PriceMinimum Order Quantity: 100 KilogramProduct Details:MaterialEpoxy sheetsSize1020 X 2020Thickness1mm to 25mmModel Name/Number3240ColorYellowResin TypeEpoxyTensile StrengthGoodWarranty1 YearComparative Tracking Index220Temperature Limit200FeatureEasily cut into shapesGet Best QuoteRequest A CallbackEpoxy Sheet for batteryProduct Price: Rs 260 / KilogramGet Best PriceMinimum Order Quantity: 200 KilogramProduct Details:Thicknessupto 1mmResin TypeEpoxyColorYellowCompanyConcordSize40 X 48Applicable Temperature200Warranty1 YearTensile StrengthGoodBrandConcordGet Best QuoteRequest A CallbackFR4 SheetProduct Price: Rs 300 / KilogramGet Best PriceProduct Details:Usage/ApplicationIndustrial UseResin TypeEpoxyColorGreenSize40 X 48BrandConcordIn our extensive assortment of products, we are also providing our esteemed patrons a supreme quality array of Epoxy Sheet which is fabricated in adherence with international quality standards and norms. Our offered epoxy sheet is highly recommended in the market for their smooth finish and high strength. Specification Size: varied sizes Colour: varied colours Type: Insulation Sheet Application: High Temperature, Electricity generation, electrical, medical, heavy industry Tensile Strength: Excellent Features: Sturdily designed High strength Resistance to damages Get Best QuoteRequest A CallbackFR4 Yellow Epoxy Sheet 3240Product Price: Rs 230 / KgGet Best PriceProduct Details:Materialepoxy resinSize40 x 48Model Name/NumberLUV FR4ColoryellowThickness2mm, 4mm, 1mm, 3mmDensityMediumResin TypeEpoxyTensile StrengthgoodWarranty1 YearBrandConcordComparative Tracking Index220Temperature Limit200FeatureTranslucent FR4Size(FeeTxFeeT)1020 X 2020Additional Information: Get Best QuoteRequest A Callback3240 Epoxy SheetProduct Price: Rs 180 / KilogramGet Best PriceProduct Details:Resin TypeEpoxyCompanyConcordSize40 X 48Thickness3mm, 5mm, 2mm, 1mmColorYellowFeatureWear ResistingDensityMediumShapeshetsApplicable Temperature150Warranty1 YearTensile StrengthgoodBrandConcordfr4pureGet Best QuoteRequest A CallbackLithium ion battery Glass Epoxy Sheet LaminatesProduct Price: Rs 300 / KgGet Best PriceProduct Details:ColorGreenResin TypeEpoxyThickness0.30 to 5mmSize40X 48,1m X 2mCompanyConcordBrandConcordMaterialEpoxy sheetsPatternPlainSurface TreatmentSmooth finishGet Best QuoteRequest A CallbackEpoxy Glass LaminateProduct Price: Rs 250 / KilogramGet Best PriceMinimum Order Quantity: 100 KilogramProduct Details:ColorYellowResin TypeEpoxyThickness0.30 to 5mmSize40X 48,1m X 2mCompanyConcordBrandConcordMaterialEpoxy sheetsPatternPlainSurface TreatmentSmooth finishTensile Strength10 MTypeFR4Usage/ApplicationIndustrialfr4300Get Best QuoteRequest A CallbackGreen Epoxy SheetsProduct Price: Rs 375 / KgGet Best PriceProduct Details:Thickness0.30 to 25mmResin TypeEpoxyColorGreenCompanyConcordSize40 X 48DensityMediumShapeFlatApplicable Temperature200Warranty1 YearTensile StrengthGoodBrandConcordGet Best QuoteRequest A Callback Material G10 GLASS EPOXY SHEET Size 1.22 mtr x 1 mtr Thickness 0.5mm to 50mm G 10 GLASS EPOXY SHEETS SIZE :- 1220MM X 1050MM / 1220MM X 1220MM / 1000MM X 2000MMTHICKNESS - 0.5MM TO 50MM View Complete Details Fill the quantity to get latest price! Contact SellerAsk for best deal Get Latest PriceRequest a quote PARRYS, Chennai, Tamil Nadu GST- 33CTPASP764M1ZT View Mobile Number 45% Response RateCall +91-8046030397 45% Response Rate Verified Supplier Wholesaler Company Video Created OnFebruary 27, 2019 Last Updated OnJuly 21, 2022 Dielectric Manufacturing Glass epoxy resins are widely used in electronic applications because they are virtually impervious to moisture. As a thermoset material, glass epoxy resins have outstanding mechanical and electric strength as well as good dielectric properties. They are formed with glass fabric and resins. Glass epoxy resins are a good choice of thermosets for fabricated components for many electrical and mechanical applications. FR4 is the fire-retardant grade of G10. These materials offer: Good dimensional stability Outstanding insulating and electrical properties Moisture-resistance Excellent flammability rating UL listed See the charts below for G-10 and FR4 material properties. Applications for G10, FR4 Thermosets Power generation High-temperature applications Structural parts Jigs and fixtures Printed circuit boards Contact a Dielectric Manufacturing knowledge expert to discuss the use of G10 and FR4 glass epoxy resins for fabrication of your parts. Call 800-367-9122 or email sales@dielectricmfg.com. G10 Glass Epoxy Material Properties Properties Tensile Strength40,000 psi lengthwise35,000 psi crosswise Comprehensive Strength68,000 psi flatwise35,000 psi edgewise Flexural Strength - .125"55,000 psi lengthwise45,000 psi crosswise Modulus of Elasticity - Flexural2,700 kpsi lengthwise2,200 kpsi crosswise IZOD Impact7.0 ft-lb/in of notch lengthwise5.5 ft-lb/in of notch crosswise Rockwell Hardness M scale11 Specific Gravity1.80 Bond Strength, in lbs.2,000 Coefficient of Thermal Expansion cm/cm- °Cx10-50.9 Water Absorption0.62" thick % per 24 hrs = 0.250.125" thick % per 24 hrs = 0.150.500" thick % per 24 hrs = 0.10 Dielectric Strength, volt/mil perpendicular to laminations: Step by Step 0.62" thick = 4500.125" thick = 350 Dissipation Factor, condition A, 1 megacycle max0.025 Dielectric Constant condition A, 1 megacycle max5.2 Insulation Resistance, Megaohms at Condition C200,000 Temp. Index 0.62" and overElectrical - °C = 130Mechanical - °C = 140 Mil-1-247682 MIL - TypeGEE Dielectric Manufacturing, Richfield, Wisconsin USA dielectricmfg.com G10 Thermoset Industrial Laminate Material Properties Provided by Dielectric Manufacturing, Richfield, Wisconsin FR4 Glass Epoxy Material Properties Properties Tensile Strength40,000 psi lengthwise35,000 psi crosswise Comprehensive Strength68,000 psi flatwise35,000 psi edgewise Flexural Strength - 125"55,000 psi lengthwise45,000 psi crosswise Modulus of Elasticity - Flexural2,700 kpsi lengthwise2,200 kpsi crosswise IZOD Impact7.0 ft-lb/in of notch lengthwise5.5 ft-lb/in of notch crosswise Rockwell Hardness M scale110 Specific Gravity1.85 Bond Strength, in lbs.2,000 Coefficient of Thermal Expansion cm/cm- °Cx10-51.0 Water Absorption0.62" thick % per 24 hrs = 0.250.125" thick % per 24 hrs = 0.150.500" thick % per 24 hrs = 0.10 Dielectric Strength, volt/mil perpendicular to laminations: Step by Step 0.62" thick = 4500.125" thick = 350 Dissipation Factor, condition A, 1 megacycle max0.025 Dielectric Constant condition A, 1 megacycle max5.2 Insulation Resistance, Megaohms at Condition C200,000 Temp. Index 0.62" and overElectrical - °C = 130Mechanical - °C = 140 Mil-1-2476827 MIL - TypeGEE-F Dielectric Manufacturing, Richfield, Wisconsin USA: dielectricmfg.com

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