VieTape FR4-9200

FR4(Glass Fiber Reinforced Epoxy Laminate)

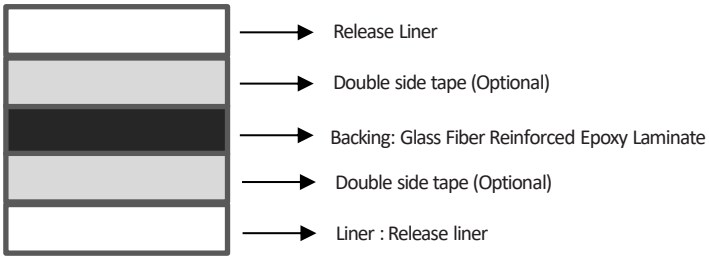
DESCRIPTION

VietTape FR4-9200 is a glass fiber reinforced epoxy laminate with excellent electrical insulation, mechanical strength, and flame retardancy (UL94 V-0). It offers stable performance up to 135 °C, good chemical and moisture resistance, and low water absorption, making it suitable for electrical and structural applications.

APPLICATIONS

- Printed Circuit Boards (PCBs): The most common substrate material for single-sided, double-sided, and multilayer PCBs.
- Electrical Insulation: Used as insulating sheets, spacers, and structural parts in electrical and electronic equipment.
- Motors and Transformers: Applied as slot wedges, insulating barriers, and support components.
- Battery Systems (EVs and Energy Storage): Used for insulation and flame-retardant barriers between cells or modules.

STRUCTURE



TYPICAL PERFORMANCE PROPERTIES

Properties	Value
Backing material	Glass Fiber Reinforced Epoxy Laminate
Color	Light green, Yellow,...
Thickness	0.2 to 50 mm (Optional)
Tensile Strength	400MPa
Bending Strength	430MPa
Flexural modulus of elasticity	20000MPa
Dielectric Strength	18kV/mm
Breakdown Voltage	35kV
Flame Retardant	Meet UL94-V0

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Properties	Value
Adhesive type	Double side acrylic tape
Double sided tape thickness	0.1mm (Optional)
Liner thickness	0.08mm (Optional)
Adhesion to Steel (peel off 180 °), 20min	18N/25mm (SUS – ASTM D3330)
Adhesion to Steel (peel off 180 °), 72 hours	22N/25mm (SUS – ASTM D3330)
Working temperature	-40°C to 90°C

DIRECTION OF USE

Temperatures between 21 and 35°C are ideal for application.

Our analysis indicates that FR4-9200 can be used in some applications at temperatures as low as 5 to 10 °C. (Note: Depending on the substrate, different low-temperature operations are possible.)

The surfaces must be thoroughly united, clean, and dry in order to achieve the best adhesion. Typical surface cleaning solvents are isopropyl alcohol/water mixture (rubbing alcohol) or heptane. Please take the appropriate precautions to handle solvents safely.

SHELF LIFE

12 months from date of manufacture when stored at 10 - 30°C and 40 - 75% relative humidity.

The optimal storage conditions are 72°F (22°C) and 50% relative humidity.

The above values are sample observed values, we do not guarantee the actual performance due to the different of application method, bonding design, bonding substrate.. We highly recommend customer to test in the real part