

G-10 Glass Epoxy Laminate is a composite material consisting of glass fabric impregnated with epoxy resin. It offers high strength, electrical insulation, chemical resistance, and dimensional stability. Widely used in aerospace, electrical, and marine applications, it is ideal for components requiring structural integrity and electrical insulation properties.

Chemical Description

Description	Value
Material Type	Thermoset Composite
Chemical	Glass Epoxy Laminate
Additives	Glass
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in ³	0.065
Water Absorption, 24 hrs, Immersion,% by wt.	0.1
Max Continuous Operating Temp,°F	284
Minimum Operating Temp,°F	-200
Thermal Conductivity,BTU-in/ft ² -hr-°F	2
Flammability Rating,UL94	HB
Dielectric Strength,V/mil	800
Dielectric Constant at 1 MHz	5

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,ksi	45
Compressive Strength,ksi	65
Flexural Strength,ksi	75
Hardness, Rockwell M	110
Izod Impact-Notched ft-lb/in	14

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.