

Key Features

- Extremely high strength
- High dimensional stability over temperature

Common Applications

- Terminal boards
- High humidity applications
- Electrical and electronic test equipment
- Electrix rotor insulation

Material Description

Garolite G-10, also known as G10 fiberglass, is a high-pressure fiberglass laminate known for its excellent electrical insulation properties, mechanical strength, and dimensional stability. It is composed of layers of glass fabric impregnated with epoxy resin and cured under high pressure and temperature. Garolite G-10 offers high dielectric strength, low moisture absorption, and good chemical resistance, making it ideal for electrical insulation applications, such as circuit boards, insulators, and electrical enclosures. Garolite G-10 is available in various thicknesses and grades to meet specific application requirements, and it can be easily machined, drilled, and fabricated using conventional tools and techniques.

Mechanical Properties

Ultimate tensile strength	41,045.7 PSI
Tensile Yield Strength	41,045.7 PSI
Hardness	Rockwell M110
Elongation at Break	3%

Physical Properties

Density	0.065 lb/in ³ (1.80 g/cm ³)
Thermal Conductivity	0.288W/m.K
Modulus of Elasticity	1,885.5 KSI (13 GPa)
Melting Point	284°F (140 °C)

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

InstaVoxel™ - On-Demand Manufacturing Expert

859 Willard Street Suite 400, Quincy MA 02169 USA
+1 (617) 302-1629 | info@instavoxel.com
www.instavoxel.com



InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



All information in our data sheet is based on approximate testing and provided to the best of our knowledge and belief. It is presented without any contractual obligations and does not constitute a guarantee of properties, processing, or application possibilities in specific cases. Our warranties and liabilities are defined solely by our terms of trade.