AtlasFibre

GLASS EPOXY FR-4

MIL-I-24768/27
Type GEE-F

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.85	-
Tensile Strength	38,000 psi	262 MPa
Compressive Strength	66,000 psi	455 MPa
Flexural Strength	60,000 psi	413 MPa
Flexural Strength -CW – A 0.125”		
Hardness - M Scale	115	
Bond Strength	2,300 psi	15 MPa
Shear Strength	21,500 psi	148 MPa
Flammability Rating	94V-0	
Maximum Operating Temperature	284°F	140°F
Coefficient of Thermal Expansion °C (x 10-5)	1.00	
Water Absorption - 24 hours	0.10	
Izod Impact Strength @ 49°C -LW	14.00	

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor - 106 cycles Condition A	0.022	
Dielectric Constant – 106 cycles Condition A	4.80	
Electric Strength V/MIL Condition A	800	
Dielectric Breakdown -A		
Permittivity -A		

PRODUCT DESCRIPTION

A laminate sheet crafted from flame retardant epoxy resin and woven fiberglass substrate, meeting NEMA FR4 and MIL-I-24768/27 specifications.

TYPICAL APPLICATIONS

With high mechanical strength and exceptional electrical insulation properties in dry or humid environments, this material is versatile for various electrical and mechanical applications due to its ease of fabrication.

Need Additional Information?

Contact Atlas Fibre Support for support for services and materials.

CONTACT US
847-674-1234
AtlasFibre.com

AtlasFibre

North America's Leading Thermoset Composite Supplier & Fabricator

Atlas Fibre is the leading supplier of thermoset composite laminate in North America. We produce and supply over 4,000,000 pounds of thermoset composites per year and stock over $12,000,000 of composite material.

Why Choose Atlas Fibre?

Large Inventory Available

An abundant inventory means material is available when you need it, helping you meet customer demand promptly, minimizing delays and enhancing customer satisfaction.

Fully Traced & Tested Material

Atlas Fibre enhances reliability by supplying test data for every batch of material we ship, and confirm our test lab process through independent third-party assessments on an annual basis.

No Cut-to-Size or Sanding Minimums

Atlas Fibre can cut and sand any thermoset composite or thermoplastic product to size, ensuring ensures each item is tailored to the exact specifications required by customers.

Automated Precision Fabrication

Specializing in High-Mix and High-Volume manufacturing for demanding production requirements, Atlas Fibre excels at delivering versatile and scalable fabrication solutions.

MATERIALS

Glass Epoxy
- G10, FR4, G11, FR5

Glass Polyester
- GPO-1, GPO-3

Glass Silicone
- G7

Phenolic
- C, CE, L, LE, G3

Engineering Thermoplastics
- PEI (Ultem), PPS, PEEK

Uni-directional Composite
- Spring Materials
- Atlas SpringLam

SERVICES

- CNC Routing and Swiss CNC Machining
- Electrical and Thermal Insulation Fabrication
- Sanding
- Batch and Sheet Testing
- Thermoset Manufacturing

SHAPES

- Sheets
- Rods
- Tubes
- Precision Blanks
- Prepreg
- Composite Springs and Vibratory Vacuum Pumps and Vanes

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