

G9 Glass Melamine Laminates Guide

BUILT TO RESIST HEAT. ENGINEERED TO PERFORM.

High Arc. High Performance. G9 Laminates Made in the USA

G9 glass melamine laminates are engineered for **electrical insulation and high-heat environments** where arc resistance, flame durability, and structural integrity matter most.

Manufactured from woven glass fabric and melamine resin, ITEN's G9 laminates deliver dependable performance in demanding industrial and electrical applications—all produced in the USA with full vertical integration and quality control.

Specification Compliance

- NEMA G9
- MIL-I-24768/1

Why G9 Laminates?



Arc and Flame Resistance

Designed to withstand arc exposure and flame conditions common in high-voltage systems.



Thermal Stability

Performs reliably in elevated temperature environments.



Mechanical Strength

Woven glass reinforcement provides rigidity and dimensional stability.



Chemical Resistance

Excellent resistance to alkaline environments for long-term durability.

When G9 Is the Right Choice

G9 is often specified for applications where safety, reliability, and electrical performance cannot be compromised, especially compared to epoxy- or silicone-based laminate grades.

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Common G9 Applications

- Terminal boards
- High-voltage electrical panels
- Transformer and switchgear insulation
- Industrial insulation and containment systems
- Arc barriers and arc shields
- Insulating bushings and sleeves

Material Specifications at a Glance

Base Material

Woven glass fabric plus melamine resin

Available Formats

- Standard sheets: 48 in x 48 in
- Multiple stock and custom thicknesses
- Custom cuts available upon request

Ordering Options

- Sheet Stock
- Machined Components
- Punched Parts

G9 vs Other Laminate Grades

What sets G9 apart?

G9's melamine resin system provides greater arc and flame resistance than many epoxy-based (G10) or silicone-based laminates, making it ideal for higher-voltage or heat-intensive environments.

Why Engineers Choose ITEN

Made in the USA: Manufactured in Ashtabula, Ohio for reliable, tariff-free supply and consistent quality.

Vertically Integrated Manufacturing: From resin to laminate sheet to fabricated part, all under one roof.

Engineering Support: Work directly with ITEN's technical experts to select materials and optimize designs.

Sheet or Finished Part: Order raw laminate or fully machined and punched components from one trusted partner.

Proven Experience: Over 100 years supporting American industry with engineered material solutions.

Need G9 Laminates You Can Count On?

Request a quote or connect with an ITEN engineer to discuss your application.

ITEN Industries

Built to Perform. Made in the USA.