Technical Data Sheet

NEMA Grade G-10/FR-4
Mil-I-24768/27
ASTM-D-709 Type IV Grade FR-4

A continuous woven glass fabric with epoxy resin. Features excellent mechanical properties, is a superior electrical insulator and has high moisture resistance over a wide range of temperatures.

SHEET SIZES

<table>
<thead>
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<th>Size</th>
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<tr>
<td>36”x48”</td>
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<tr>
<td>48”x48”</td>
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<tr>
<td>48”x72”</td>
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<td>48”x96”</td>
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THICKNESS RANGE

0.005” – 3.000”

PHYSICAL PROPERTIES:

- DENSITY: 0.069 LB/CU INCH
- WATER ABSORPTION RATE: 0.15%
- ROCKWELL HARDNESS: 115
- TENSILE STRENGTH (with grain): 50,000 PSI
- COMRESSIVE STRENGTH (flatness): 60,000 PSI
- FLEXURAL STRENGTH: 50,000 PSI
- BONDING STRENGTH: 2,000 LB
- IMPACT STRENGTH: 12.0 FT-LB INCH OF NOTCH
- FLAMMABILITY: UL94-VO

ELECTRICAL PROPERTIES:

- DIELECTRIC STRENGTH: 550 VPM
- DISSIPATION FACTOR (10ºCYCLE/SEC): 0.020
- DIELECTRIC CONSTANT (10ºCYCLE/SEC): 5.0
- VOLUME RESISTIVITY: 6X10⁻⁶
- SURFACE RESISTIVITY: 1X10⁻⁶
- ARC RESISTANCE: 100 SECONDS
- PARALLEL DIELECTRIC: 35
- MODULUS OF ELASTICITY: Lengthwise 2,700 KSI
- Crosswise 2,200 KSI

MAX OPERATING TEMPERATURE: 140°C - 284°F

Resistant to dilute solutions of most acids. Not recommended for use in alkaline solutions. Unaffected by most organic solvents.

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