



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	36"X48" 48"x72"	48"X48" 48"x96"
THCKNESS RANGE	.005 – 3.000"	

PHYSICAL PROPERTIES:

DENSITY	0.069LB/CU INCH
WATER ABSORPTION RATE	0.15%
ROCKWELL HARDNESS	115
TENSILE STRENGTH (with grain)	50,000 PSI
COMPRESSIVE 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:

DIALECTRIC STRENGTH	550 VPM
DISSAPATION FACTOR (10°C/CYCLE/SEC)	0.020
DIELECTRIC CONSTANT (10°C/CYCLE/SEC)	5.0
VOLUME RESISTIVITY	6X10 ⁻⁶
SURFACE RESISTIVITY	1X10 ⁻⁶
ARC RESISTANCE	100 SECONDS
PARALLEL DIELECTRIC	35
MODULUS OF ELESTICITY: 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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