Certified ISO 9001:2015 and AS9100 D®

Material Specifications

ST Grade G10/FR-4

Density, gm/cc	1.85
Lbs per sq ft (1/8th)	1.26
Tensile Strength, PSI, lengthwise	48,000
Tensile Strength, PSI, crosswise	44,000
Compressive Strength, PSI, flatwise	60,000
Flexural Strength, PSI, lengthwise	72,000
Flexural Strength, PSI, crosswise	65,000
Modulus of Elasticity in Flexure LW	15 x 100,000
CW	12 x 100,000
Coefficient of Thermal Expansion cm/cm/C-degree	1 x 0.00001
Hardness, Rockwell (M)	110
Dielectric Strength, VPM, perpendicular (1/16th)	670
(1/8th)	525
Water Absorption, % 24hrs (1/16th)	0.10
(1/8th)	0.07
(1/2)	0.03
Heat Resistance, degrees F, continuous	280
Comparative Tracking Index	300
UL Flammability	94V-0 (FR4)

G-10 and FR4 are Glass-Epoxy laminates particularly noted for their very high Electrical value, low Moisture Absorption and high Mechanical strengths, typically retained over a wide range of temperature and electrical conditions.

N.B.: Values are based on typical Test Methods and Conditions and to be used for Engineering and Design Purposes only.

Tel: (450) 430-3030 • Fax: (450) 430-3031 • Toll Free: 1-888–475–8843
info@synthanetaylor.com • www.synthanetaylor.com