Super thin, 1-ply FR-4/G10 epoxy fiberglass prepreg is barely thicker than a sheet of paper. Coupled with 1/2 ounce copper foil you get very fast etch times enabling trace widths down to .005”.

With the total thickness of .005”, cutting and trimming is done using scissors. Made in the USA.

Check out our unique “Contact Etch” technique for no etching tank needed and fast etch times under 2 minutes.

Underwriters Laboratories: All materials meet UL-94VO

General Information:
- MIL-P-13949G Type Designation: GFU L. Designation – ANSI Grade FR-4
- U.L. File Number: E38534
- Flammability Rating: 94V-0
- Maximum Operating Temperature: 130°C
- Copper Weight: 1/2 oz.

Peel Strength:
- As received: 10 lbs/in, min
- After Thermal Stress (550°F, 20 sec): 10 lbs/in, min
- After Processing Solutions: 9 lbs/in, min
- At Elevated Temperature: 8 lbs/in, min

Difunctional FR-4/G-10 Properties:
- Flexural Strength Lengthwise: 90 KSI, min
- Permittivity, 1MHZ: 4.7, max
- Loss Tangent, 1MHZ: .015, max
- Water Absorption: .15, max
- ARC Resistance: 120 sec, min
- Volume Resistivity (Cond F): 1.0 x 10⁶, min
- Surface Resistivity (Cond. F): 1.0 x 10⁷, min
- Volume Resistivity: E-24/125: 5 x 10⁴, min
- Surface Resistivity: E-24/125: 1 x 10⁵, min
- Chemical Resistance: 1.5%
- Standard Tolerance: +/- .0050
- Class 3 Tolerance: +/- .0035

See our website for more information on how to make flex membrane keypads with links to pigtail connectors and more.

For more information about our techniques we invite you to visit our website at PulsarProFX.com or call us at (850) 926-2009, 9am-5pm MST