

Fr 4 Glass Epoxy Phenolic Plastics Intl

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Fr 4 Glass Epoxy Phenolic

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Fr 4 Glass Epoxy Phenolic FR-4 (or FR4) is a NEMA grade designation for glass-reinforced epoxy laminate material FR-4 is a composite material composed of woven fiberglass cloth with an epoxy ...

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paper paper canvas canvas linen linen glass glass glass glass glass phenolic phenolic phenolic phenolic phenolic phenolic phenolic melamine epoxy epoxy silicone ce l le g3 g-9 g-10/fr4 g-11 g ...

grade G-10/FR4 X C, CE L, LE

glass~ epoxies X paper~ phenolic C, CE canvas phenolic L, LE linen~ phenolic Modulus of Elasticity in flex lengthwise, PSI x 10 6 27 18 95 105
crosswise, PSI x 10 6 22 13 85 85 Shear Strength, PSI 19,000 12,000 11,500 11,750 IZOD Impact flatwise, ft lb per inch of notch 7 4 ...

Typical Properties Data Sheet of FR4

RT~200°C GB/IPC4101 17×10⁻⁴ 1/°C RT~200°C GB/IPC4101 92×10⁻⁶ 1/°C 50Hz GB/IPC4101 ≤55 ... 50Hz GB/IPC4101 ≤004 ... GB/IPC4102
200-300 V□CTI□ ... GB/IPC4101 ≥ 13×10¹² Ω ...

Technical Data Sheet G-10 - Laminated Plastics

FR-4 is a fire-retardant G-10 glass-epoxy laminate that is used primarily in the printed circuit board industry G-10 and similar fiberglass reinforced thermosets are sometimes known as garolite General Description Phenolic Laminates are produced by applying heat and pressure to layers of paper, canvas, linen or glass cloth ...

TYPICAL PROPERTIES of GLASS LAMINATES (SHEET FORM)

GLASS-BASED PHENOLIC GRADES -- G-10 and G-11 (Glass Cloth / Epoxy Resin) FR-4 is a fire-retardant G-10 glass-epoxy laminate that is used primarily in the printed circuit board industry TYPICAL PROPERTIES of GLASS ...

General Machining Guidelines for Phenolic Materials

XXX, XX — Paper Phenolic This paper based phenolic is easy to machine and suitable for many electronic applications G-10/FR4 — Glass Epoxy These popular grades are noted for their excellent mechanical and electrical values, especially in high humidity applications G-11 — Glass ...

IPC-4101B Reference Chart - Standard Printed Circuits

IPC-4101B/83 Woven E-Glass Epoxy (1), Multifunctional Epoxy (2), Flame Resistant UL/ANSI FR-4 150-200° 54 IPC-4101B/90 Woven E-Glass Polyphenylene ether, Flame Resistant ANSI 4101/90 175° 42

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IS IT FR4 IS IT G10???

Both G10 and FR4 are high-pressure industrial laminates made from glass fabric impregnated with epoxy resin 1 2 The difference between FR4 and G10 is in the resin 3 The epoxy resin is a composite of two chemicals: epichlorohydrin and "bis" phenol A 4...

ELECTRONICS & TECHNOLOGY, INC. Vectorbord

CEM-1 Epoxy Glass Composite, 1oz unplated copper, 1 side FR2 Phenolic FR4 Epoxy Glass CEM-1 Epoxy Glass Composite CEM-1 Epoxy Glass Composite, 1oz unplated copper, 1 side FR-4, HiTg 200oC, no copper FR-4, HiTg 200oC, 1oz unplated copper, 2 sides FR-4, HiTg 200oC, no copper FR4 Epoxy Glass FR4 Epoxy Glass...

Printed circuit boards-Alternative board materials

The phenolic-paper and epoxy-glass laminates which come under the generic NEMA descriptions of FR-2 and FR-4, materials have been described in some detail under Basic board materials, although ...