

Epoxy Glass Cloth Laminate Sheet (G10/FR4)



Dexlu Item No.: D040302 D040303

Properties

This two kinds of thermosetting industrial Laminates are electrical alkali-free glass woven fabric base impregnated an epoxy resin binder by processing under pressure and heat, which have extremely high mechanical strength, good dielectric loss properties and good electric strength properties. In addition, FR4 sheet has anti-fire property.

Data Form

Epoxy Glass Cloth Laminated Sheet (Similar to NEMA G10/FR4)				
Properties		Unit	Value	
			G10	FR4
Flexural Strength perpendicular to laminations	A: under normal conditions	Mpa	≥340	≥340
	E-1/15: 150±5°C		-	-
Impact Strength parallel to laminations (Charpy)		KJ/m ²	≥33	≥33
Insulation Resistance after immersion in water (D-24/23)		Ω	≥5.0×10 ⁸	≥5.0×10 ⁸
Dielectric strength perpendicular to laminations (in 90±2°C transformer oil, 1 mm in thickness)		MV/m	≥14.2	≥14.2
Breakdown voltage parallel to laminations (in 90±2°C transformer oil)		KV	≥35	≥40
Permittivity (50Hz)		-	≤5.5	≤5.5
Permittivity (1MHz)		-	≤5.5	≤5.5
Dissipation Factor (50Hz)		-	≤0.04	≤0.04
Dissipation Factor (1MHz)		-	≤0.04	≤0.04
Water Absorption (D-24/23, 1.6mm in thickness)		mg	≤19	≤19
Density		g/cm ³	1.85	1.85
Flammability		-	-	94V-0
Color		-	Green	Green

Specification

Area: 1020mm x 1220mm (40" x 48"), 1020 x 2040mm(40" X 80")

Packing: In Pallet

Min Qty: 1000kg each size in a lot.

Thickness: 0.5mm~50mm, thickness over 50mm is also available, please contact our sales for the detail information

Note: The values noted in above technical specification are given only for our customers' reference and should not be used in writing specifications.