



Epoxy Glass Cloth Laminate Sheet (G11/FR5)

Dexlu Item No.: D040304 D040305

Properties

This two kinds of thermosetting industrial Laminate are electrical alkali-free glass woven fabric base impregnated an epoxy resin binder, G11 is similar to G10 and FR5 to FR4, with the addition of a higher operating temperature and some improved mechanical strength at elevated temperature. It is widely used as all kinds of insulation components.

Data Form

Epoxy Glass Cloth Laminated Sheet (Similar to NEMA G11/FR5)					
Properties			Unit	Value	
				G11	FR5
Flexural Strength perpendicular to laminations	A: under normal conditions		Mpa	≥340	≥340
	E-1/15: 150±5°C			≥170	≥170
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			-	-	-
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.