

Rigid Insulation Epoxy Glass G11.

GENERAL INFORMATION:

G11 Epoxy glass is manufactured from fine weave woven glass cloth, impregnated with epoxy resin and laminated at elevated pressures and temperatures. The resultant product has similar properties to G10. However displays greater mechanical properties particularly at elevated temperature to 180°C.

APPLICATIONS:

Motor/generator slot wedges and packers, fabricated components in electrical switchgear, high frequency applications and in corrosive atmospheres.

TYPICAL PROPERTIES:

Electrical & Mechanical		Values
Impact Strength parallel to laminations (Charpy)	Normal Conditions	33MPa
Flexural Strength	Normal Conditions	340Mpa
	105±5°C	170MPa
Insulation resistance after immersion in water	D-24/23	≥5.0 x 10 ⁸ Ω
Dielectric strength perpendicular to laminations. (In transformer oil @ 90±2°C, 1mm thick)		14.2MV/m
Breakdown voltage parallel to laminations. (In transformer oil @ 90±2°C)		40kV
Permittivity (48-62Hz)		≤5.5
Permittivity (1MHz)		≤5.5
Dissipation factor (48-62Hz)		≤0.04
Dissipation factor (1MHz)		≤0.04
Water Absorption	D-24/23, 1.6mm thick	19mg
Density		1.70-1.90mg
Flammability	Class	FVO
Physical		
Colour		Natural Green
Standard Thicknesses		0.2mm – 50mm
Sheet Size		1220 x1020mm
NOTE: Also manufactured in tubes from 4.75mm ID up to 250mm OD x 915mm long. Refer your local sales office.		