

## Epoxy Glass G 10.

### General information

Manufactured from woven glass cloth and impregnated with epoxy resin it is laminated at elevated pressures and temperatures. It is commonly known as G 10.

The resultant product displays excellent electrical and mechanical properties from cryogenic(-50°C) to elevated temperatures (155°C). Coupled with this is its excellent machinability, flame resistance, moisture and chemical resistant properties.

### Applications

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

### Properties:

Electrical& Mechanical		Values
Impact Strength parallel to laminations(charpy)	Normal Conditions	33MPa
Flexural Strength	Normal Conditions	340MPa
Insulation resistance after immersion in water	D-24/23	$\geq 5.0 \times 10^8 \Omega$
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)		$\leq 5.5$
Permittivity(1MHz)		$\leq 5.5$
Dissipation factor(48-62Hz)		$\leq 0.40$
Dissipation factor(1MHz)		$\leq 0.40$
Water Absorption	D-24/23 1.6mm thick	19mg
Density		1.70-1.90mg
Flammability	Class	—
<b>Physical</b>		
Colour		Green
Standard Thickness		0.2mm-150mm
Sheet Size		1220×1020mm