

TECHNICAL DATA OVERVIEW

EPGC 306

Material Description	Laminated material made of resin-bonded glass fabric
Colour	green-brown
Uses	Electrical and thermal insulation components for mechanical and industrial engineering
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,9
Water absorption	ISO 62 Standard	%	0,1

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	180
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	10 to 20
Thermal conductivity	DIN 52612	W/mK	0,3

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	635
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	450
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm ²	25000
Traction	ISO 527 Standard	N/mm ²	350
Splitting force	STANDARD DIN 53463	N	3000

Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	-	600
Dielectric coefficient	DIN 53483	-	5
Insulation resistance after immersion in water	IEC 167	Ω	1.3 x 10 ¹²
Electric Dielectric Strength (!)	IEC 243-1	KV/3 mm	13,3
Dielectric strength ()	IEC 243-1	KV/25 mm	50

Status: 11/2017