

TECHNICAL DATA OVERVIEW

DOGLAS® 180B

Material Description	Laminated material made of resin-bonded glass fabric
Colour	light green
Uses	Electrical insulating components for mechanical and plant engineering with special fire protection requirements
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,85
Water absorption	ISO 62 Standard	%	0,16

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	130
Application temperature, short-term	–	°C	180

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	350
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	340
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm ²	24000
Traction	ISO 527 Standard	N/mm ²	300
Splitting force	STANDARD DIN 53463	N	3500

Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	–	SIC 200
Dielectric coefficient	DIN 53483	–	5,5
Insulation resistance after immersion in water	IEC 167	Ω	5 x 10 ¹⁰
Dielectric strength (I)	IEC 243-1	KV/3 mm	30
Dielectric strength (II)	IEC 243-1	KV/25 mm	35
Fire protection class	UL 94	–	V0

Last Updated: 11/2014

The values shown were determined on standard specimens. The material properties may differ from these values depending on the application and the geometry of the component.

Our consulting engineers and technicians are at your disposal to clarify the exact suitability of the material.