

DOGLAS® 180E

Product description	Engineered composite material made of resin-bound glass fabric
Standard colour	green
Main applications	Electrical insulation parts for machine engineering and process industry
Delivery program	Sheets, panels and highly precise machined parts and finished components

Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm³	1,85
Water absorption	ISO 62	%	0,16

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	_	°C	155
Operation temperature, short-term	_	°C	180

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	550
Flexural strength at 23 °C	ISO 178	N/mm ²	480
Modul of elasticity	ISO 178	N/mm ²	24000
Tensile strength	ISO 527	N/mm ²	370
Split load	DIN 53463	N	3500

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	_	CTI 180
Permittivity	DIN 53483	_	5,5
Electrical insulation resistance after immersion in water	IEC 167	Ω	5 x 10 ¹⁰
Electric strength (⊥)	IEC 243-1	KV/3 mm	30
Electric strength (II)	IEC 243-1	KV/25 mm	35

Issue: 02/2018

We reserve the right to make changes in the context of further technical developments. The guide values listed in this data sheet are not contractual data.

Please contact our applications and sales engineers to clarify the suitability of the material for your application.