

OVERVIEW TECHNICAL DATA

DOGLAS[®] 180G

Product description	Engineered composite material made of resin-bound glass fabric
Standard colour	yellow, brown
Main applications	Electrical and thermal 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/cm ³	1,85
Water absorption	ISO 62	%	0,1

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	—	°C	180
Operation temperature, short-term	—	°C	210
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	15
Thermal conductivity	DIN 52612	W/mK	0,3

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	600
Compressive strength at 200 °C	ISO 604	N/mm ²	260
Flexural strength at 23 °C	ISO 178	N/mm ²	450
Modul of elasticity	ISO 178	N/mm ²	20000
Tensile strength	ISO 527	N/mm ²	400
Split load	DIN 53463	N	3500

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	-	CTI 350
Permittivity	DIN 53483	-	5,1
Electric strength (I)	IEC 243-1	KV/3 mm	30
Electric strength (II)	IEC 243-1	KV/25 mm	36

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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.