

OVERVIEW TECHNICAL DATA

DOGLAS[®] 230 R

Product description	Engineered composite material made of resin-bound glass roving fabric
Standard colour	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	2
Water absorption	ISO 62	%	0,1

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	—	°C	230
Operation temperature, short-term	—	°C	250
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	13
Thermal conductivity	DIN 52612	W/mK	0,23

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C / 220 °C	ISO 604	N/mm ²	700 / 450
Flexural strength at 23 °C / 220 °C	ISO 178	N/mm ²	720 / 360
Modul of elasticity at 23 °C / 220 °C	ISO 178	N/mm ²	34000 / 21000
Tensile strength	ISO 527	N/mm ²	400

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	-	CTI 500
Permittivity	DIN 53483	-	5
Electric strength (I)	IEC 243-1	KV/3 mm	39
Electric strength (II)	IEC 243-1	KV/25 mm	70
Flammability class	UL 94	—	V 0

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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.