

**OVERVIEW TECHNICAL DATA**

# DOGLAS<sup>®</sup> 230 R

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

## Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm <sup>3</sup>	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 <sup>-6</sup> x K <sup>-1</sup>	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 <sup>2</sup>	700 / 450
Flexural strength at 23 °C / 220 °C	ISO 178	N/mm <sup>2</sup>	720 / 360
Modul of elasticity at 23 °C / 220 °C	ISO 178	N/mm <sup>2</sup>	34000 / 21000
Tensile strength	ISO 527	N/mm <sup>2</sup>	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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The standard values shown in this data sheet are measured by standard test methods. Depending on operation terms and dimensions the material properties can differ from these values.

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