

**TECHNICAL DATA OVERVIEW**

# DOGLAS® 220M

<b>Material Description</b>	Resin-bonded fiberglass composite
<b>Colour</b>	yellow
<b>Uses</b>	Electrical and thermal insulation components for mechanical and industrial engineering
<b>Availability</b>	Panels, blanks and components/assemblies according to drawings

## Physical properties

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

## Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	220
Application temperature, short-term	–	°C	230
Coefficient of linear expansion	DIN 51045	10 <sup>-6</sup> x K <sup>-1</sup>	10
Thermal conductivity	DIN 52612	W/mK	0,22

## Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm <sup>2</sup>	500
Compressive strength at 200 °C	ISO 604 Standard	N/mm <sup>2</sup>	280
Flexural strength at 23 °C	ISO 178 Standard	N/mm <sup>2</sup>	350
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm <sup>2</sup>	18000
Traction	ISO 527 Standard	N/mm <sup>2</sup>	280
Splitting force	STANDARD DIN 53463	N	4500

## Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	-	SIC 150
Dielectric coefficient	DIN 53483	-	5
Dielectric strength (⊥)	IEC 243-1	KV/3 mm	39
Dielectric strength (  )	IEC 243-1	KV/25 mm	70

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.