TECHNICAL DATA OVERVIEW

DOGLAS® 230 R

Material Description	Laminated material made of resin-bonded wick glass fabric
Colour	Chestnut
Uses	Electrical and thermal insulation components for mechanical and industrial engineering
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm3	2
Water absorption	ISO 62 Standard	%	0,1

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	230
Application temperature, short-term	–	°C	250
Coefficient of linear expansion	DIN 51045	$10\text{-}6 \times K^{-1}$	13
Thermal conductivity	DIN 52612	W/mK	0,23

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C / 220 °C	ISO 604 Standard	N/mm2	700 / 450
Flexural strength at 23 °C / 220 °C	ISO 178 Standard	N/mm2	720 / 360
Modulus of bending elasticity at 23 °C / 220 °C	ISO 178 Standard	N/mm2	34000 / 21000
Traction	ISO 527 Standard	N/mm2	400

Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	-	SIC 500
Dielectric coefficient	DIN 53483	-	5
Dielectric strength (⊥)	IEC 243-1	KV/3 mm	39
Dielectric strength (‖)	IEC 243-1	KV/25 mm	70
Fire protection class	UL 94	–	V 0

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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.

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