

TECHNICAL DATA OVERVIEW

DOGLIDE® DBG 180

Material Description	Isotropic resin-bonded sliding material
Colour	dark grey
Uses	Electrical and thermal insulation components with sliding properties for mechanical and plant engineering
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,4
Water absorption	ISO 62 Standard	%	3,4

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	160
Application temperature, short-term	–	°C	180
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	30
Shrinkage at 200°C	24 hrs	%	0,5
Thermal conductivity	DIN 52612	W/mK	0,35

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	195
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	75
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm ²	7000

Sliding properties

Properties	Test Standard	Unit	Value
Coefficient of friction (μ)	–	–	0,23
To wear	–	g/KWh	0,47
Oil/grease resistance	–		constant

DOGLIDE DBG 180 material is electrically insulating.

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.