

OVERVIEW TECHNICAL DATA

DOGLIDE® DBG 180

Product description	Engineered isotropic composite material made of resin-bound fillers
Standard colour	darkgrey
Main applications	Electrical and thermal insulation parts with gliding effect 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	1,4
Water absorption	ISO 62	%	3,4

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	—	°C	160
Operation temperature, short-term	—	°C	180
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	30
Linear shrinkage at 200 °C	24 hours	%	0,5
Thermal conductivity	DIN 52612	W/mK	0,35

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	195
Flexural strength at 23 °C	ISO 178	N/mm ²	75
Modul of elasticity	ISO 178	N/mm ²	7000

Gliding characteristics

Properties	Test Standard	Unit	Typical value
Sliding friction coefficient	—	—	0,23
Wear resistance	—	g/KWh	0,47
Oil and fat resistance	—	—	resistant

DOGLIDE DBG 180 is electrically isolating.

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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.