

OVERVIEW TECHNICAL DATA

DOTEC® 350

Product description	Engineered composite material made of temperature resistant binder and fillers with low thermal conductivity
Standard colour	green
Main applications	Thermal and electrical insulation parts for machine engineering and process industry - compression molded parts -
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	0,9
Water absorption	ISO 62	%	0,8

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	350
Operation temperature, short-term	-	°C	400
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	40
Thermal conductivity at 200 °C	DIN 52612	W/mK	0,12

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	38
Modulus of elasticity (compression) at 23 °C	ISO 604	N/mm ²	1150
Compressive strength at 250 °C	ISO 604	N/mm ²	25
Modulus of elasticity (compression) at 200 °C	ISO 604	N/mm ²	890
Flexural strength at 23 °C	ISO 178	N/mm ²	20
Modul of elasticity	ISO 178	N/mm ²	4500

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Electric strength (I)	IEC 243-1	KV/3 mm	20
Electric strength (II)	IEC 243-1	KV/25 mm	30

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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.