

OVERVIEW TECHNICAL DATA

DOTEC® 600

Product description	Engineered composite material made of glass bound mica
Standard colour	beige
Main applications	Electrical and thermal insulation parts for machine engineering and process industry (vacuum tight, chemical and humidity resistant)
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	2,8
Water absorption	ISO 62	%	0,0

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	600
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	10
Thermal conductivity	DIN 52612	W/mK	1,32

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	220
Flexural strength at 23 °C	ISO 178	N/mm ²	76
Tensile strength at 23 °C	ISO 527	N/mm ²	35

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	-	CTI 600
Electric strength	IEC 243-1	KV/3 mm	49,5
Arc resistance	VDE0303 Part 71	Seconds	345

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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.