

OVERVIEW TECHNICAL DATA

DOTEC[®] 800M

Product description	Engineered composite material made of glass bound mica
Standard colour	White
Main applications	Electrical and thermal insulation parts for machine engineering and process industry (vacuum tight, chemical and water resistant)
Delivery program	highly precise machined parts and finished components

Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific gravity	ISO 1183	g/cm ³	2,5
Water absorption (95 °C, 24 h)	ISO 62	%	0,01

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	800
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	9
Thermal conductivity	DIN 52612	W/mK	1,4

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	310
Flexural strength at 23 °C	ISO 178	N/mm ²	85
Hardness	-	Rockwell A	50

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Permittivity	DIN 53483	-	6,0
Electric strength	IEC 243-1	KV/0,3 mm	120
Specific volume resistance	-	Ω cm	10 ¹⁷

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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.