

## OVERVIEW TECHNICAL DATA

# DOTHERM® 600 M

<b>Product description</b>	Engineered composite material made of resin-bound Muscovite Mica
<b>Standard colour</b>	grey
<b>Main applications</b>	Electrical and thermal insulation parts for machine engineering and process industry
<b>Delivery program</b>	Sheets, panels and highly precise machined parts and finished components

## Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific density	ISO 1183	g/cm <sup>3</sup>	2,1
Water absorption	ISO 62	%	1,0

## Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	—	°C	550
Operating temperature, short-term	—	°C	700
Coeff. of linear thermal expansion (  /⊥)	DIN 51045	10 <sup>-6</sup> x K <sup>-1</sup>	10/100
Thermal conductivity	DIN 52612	W/mK	0,26

## Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm <sup>2</sup>	410
Flexural strength at 23 °C	ISO 178	N/mm <sup>2</sup>	150

## Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	—	CTI 500
Electric strength	IEC 243-1	KV/3 mm	90
Arc resistance	VDE0303 Part 71	Seconds	> 420
Flammability rating	UL 94	—	V0

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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.