

OVERVIEW TECHNICAL DATA

DOTHERM® 700

Product description	Inorganic material reinforced with mineral fibers
Standard colour	grey
Main applications	Electrical and thermal insulation parts 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	1,75
Water absorption	ISO 62	%	15

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	700
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	6
Shrinkage at operating temperature	after 12 h	%	0,5
Thermal conductivity	DIN 52612	W/mK	0,37

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	120
Flexural strength at 23 °C	ISO 178	N/mm ²	32

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Electric strength	IEC 243-1	KV/3 mm	8,7
Arc resistance	VDE0303 Part 71	Seconds	> 370

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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.