

OVERVIEW TECHNICAL DATA

DOTEX[®] 110

Product description	Engineered composite material made of resin-bound cotton fabric
Standard colour	brown
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	1,4
Water absorption	ISO 62	%	2,4

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	110
Operation temperature, short-term	-	°C	110
Coeff. of linear thermal expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	30
Thermal conductivity	DIN 52612	W/mK	0,2

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	320
Flexural strength at 23 °C	ISO 178	N/mm ²	100
Modul of elasticity	ISO 178	N/mm ²	7000
Tensile strength	ISO 527	N/mm ²	80
Split load	DIN 53463	N	3000

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Comparative tracking index	IEC 112	-	CTI 100
Electric strength (I)	IEC 243-1	KV/3 mm	1,5
Electric strength (II)	IEC 243-1	KV/25 mm	1,0

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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.