

TECHNICAL DATA OVERVIEW

DOTEX® 110

Material Description	Resin-bonded cotton fabric laminated material
Colour	Chestnut
Uses	Electrical and thermal insulation components for mechanical and industrial engineering
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	1,4
Water absorption	ISO 62 Standard	%	2,4

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	110
Application temperature, short-term	–	°C	110
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	30
Thermal conductivity	DIN 52612	W/mK	0,2

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	320
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	100
Modulus of Elasticity of Flexural Test	ISO 178 Standard	N/mm ²	7000
Traction	ISO 527 Standard	N/mm ²	80
Splitting force	STANDARD DIN 53463	N	3000

Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	-	SIC 100
Dielectric strength (±)	IEC 243-1	KV/3 mm	1,5
Dielectric strength ()	IEC 243-1	KV/25 mm	1,0

Last Updated: 11/2014

The values shown were determined on standard specimens. The material properties may differ from these values depending on the application and the geometry of the component.

Our consulting engineers and technicians are at your disposal to clarify the exact suitability of the material.