

TECHNICAL DATA OVERVIEW

DOTEC® 600

Material Description	Glass-bonded mica material
Colour	beige
Uses	Electrical and thermal insulation components for mechanical and plant engineering (vacuum, moisture and chemical resistant)
Availability	Panels, blanks and components/assemblies according to drawings

Physical properties

Properties	Test Standard	Unit	Value
Density	ISO 1183 standard	g/cm ³	2,8
Water absorption	ISO 62 Standard	%	0,0

Thermal properties

Properties	Test Standard	Unit	Value
Application temperature, continuous	–	°C	600
Coefficient of linear expansion	DIN 51045	10 ⁻⁶ x K ⁻¹	10
Thermal conductivity	DIN 52612	W/mK	1,32

Mechanical properties

Properties	Test Standard	Unit	Value
Compressive strength at 23 °C	ISO 604 Standard	N/mm ²	220
Flexural strength at 23 °C	ISO 178 Standard	N/mm ²	76
Tensile strength at 23 °C	ISO 527 Standard	N/mm ²	35

Electrical properties

Properties	Test Standard	Unit	Value
Resistance to tracking	IEC 112	Step	SIC 600
Electric Dielectric Strength	IEC 243-1	KV/3 mm	49,5
Arc resistance	VDE0303 Part 71	Seconds	345

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.