

OVERVIEW TECHNICAL DATA

DOGLAS[®] 180E-Tube

Product description	Rolled tubes made of resin-bound glass fabric
Standard colour	green
Main applications	Electrical and thermal insulation parts for machine engineering and process industry
Delivery program	Tubes, tube cut-offs and highly precise machined parts and finished components

Physical characteristics

Properties	Test Standard	Unit	Typical value
Specific gravity	ISO 1183	g/cm ³	1,8
Water absorption	ISO 62	%	0,1

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	155
Operation temperature, short-term	-	°C	180
Thermal conductivity	DIN 52612	W/mK	0,3

Mechanical characteristics

Properties	Test Standard	Unit	Typical value
Compressive strength at 23 °C	ISO 604	N/mm ²	150
Flexural strength at 23 °C	ISO 178	N/mm ²	300
Modul of elasticity	ISO 178	N/mm ²	18000
Tensile strength	ISO 527	N/mm ²	200

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Permittivity	DIN 53483	-	4,5
Electric strength (⊥)	IEC 243-1	KV/3 mm	30
Electric strength ()	IEC 243-1	KV/25 mm	40

Issue: 11/2014

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.