

OVERVIEW TECHNICAL DATA

DOTEX[®] 120-Tube

Product description	Rolled tubes made of resin-bound paper
Standard colour	brown
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	1,2
Water absorption	ISO 62	%	1,5

Thermal characteristics

Properties	Test Standard	Unit	Typical value
Operating temperature, continuous	-	°C	120
Operation temperature, short-term	-	°C	120
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	40
Flexural strength at 23 °C	ISO 178	N/mm ²	100
Modul of elasticity	ISO 178	N/mm ²	6000
Tensile strength	ISO 527	N/mm ²	50

Electrical characteristics

Properties	Test Standard	Unit	Typical value
Electric strength (I)	IEC 243-1	KV/3 mm	25
Electric strength (II)	IEC 243-1	KV/25 mm	25

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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.