VOLTIS® HGW 2082

VOLTIS® HGW 2082 is similar to the following international standards:
IEC 60893 PF CC 201

Composition
VOLTIS® HGW 2082 is a phenolic woven cotton fabric laminate.

Application
VOLTIS® HGW 2082 is used for applications like gear running and friction wheels or friction surfaces.

Availability

Thickness:	0,5 - 200 mm	Thickness tolerances:	up to 29 mm thickness: according IEC 60893
	30 – 40 mm:		+2,5/-0 mm
	45 – 60 mm:		+3,0/-0 mm
	65 – 70 mm:		+3,5/-0 mm
	75 – 80 mm:		+4,0/-0 mm
	90 – 150 mm:		+5,0/-0 mm
	151 - 200 mm:		+7,0/-0 mm

Standard sheet size: 1450 ±20 mm x 950 ±20 mm (15 to 200 mm thickness)
2150 +30/-10 mm x 1250 +30/-10 mm (0,5 to 150 mm thickness)
2800 +20/-0 mm x 1240 +20/-0 mm (0,5 to 70 mm thickness)
Cuttings are available on request.

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TECHNICAL DATA

Values in the table are mean values of our production. Values according to the standard IEC 60893 are guaranteed.

Properties	Norm	Unit	Value
Density	ISO 1183 / A	g/cm^3	approx. 1,4
Flexural strength length/cross	ISO 178	MPa	min. 130/120
Flexural modulus of elasticity	ISO 178	MPa	approx. 7000
Impact strength (Charpy) parallel to laminations	ISO 179/3 C	kJ/m^2	min. 10
Tensile strength length/cross	ISO 527	MPa	min. 80/65
Electric strength at 90°C in oil perpendicular to laminations (thickness 3mm), conditioning 4 h/70°C	IEC 60243	kV/mm	1,6
Breakdown voltage at 90°C in oil parallel to laminations, conditioning 4 h/70°C	IEC 60243	kV	8
Permittivity at 50 Hz and 1 MHz	IEC 250	-	approx. 5
Insulation resistance after immersion in water	IEC 60167	Ohm	min. 10^6
Comparative tracking index	IEC 112	-	CTI 100
Thermal endurance	IEC 60216	T.I.	120
Water absorption (thickness 3 mm)	ISO 62 / 1	mg	max. 200

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