

## VOLTIS® HP 2061.5

### Composition

VOLTIS® HP 2061.5 is a phenolic paper laminate conforming PFCP 202 acc. IEC 60893 and Hp 2061,5 acc. DIN 7735.

### Application

VOLTIS® HP 2061.5 is recommended for high voltage applications, e.g. oil transformers and high voltage switch gear.

### Technical Data

Properties	Testmethod	Unit	Value
Density	ISO 1183 / A	g/cm <sup>3</sup>	approx. 1,4
Flexural strength	ISO 178	MPa	130
Flexural modulus of elasticity	ISO 178	MPa	approx. 9000
Compressive strength perpendicular to laminations	ISO 604	MPa	300
Tensile strength	ISO 527	MPa	100
Electric strength at 90°C in oil perpendicular to laminations (thickness 3mm, conditioning 96h / 105°C)	IEC 243	kV/mm	> 13
Breakdown voltage at 90°C in oil parallel to laminations (conditioning 96h / 105°C)	IEC 243	kV	60
Permittivity at 50 Hz	IEC 250	-	< 5,5
Dissipation factor at 50 Hz	IEC 250	-	< 0,05
Comparative tracking index	IEC 112	-	CTI 100
Thermal endurance	IEC 216	T.I.	120
Water absorption (thickness 3 mm)	ISO 62 / 1	mg	< 260
Impact strength parallel to laminations a <sub>n</sub> 10 and a <sub>n</sub> 15	DIN 53453	kJ/m <sup>2</sup>	20

Availability: Thickness: 0,8 - 50 mm, tolerances: according to IEC 60893  
 Sheet size: 2140 +30/-0 mm x 1240 +30/-0 mm  
 2800 +30/-0 mm x 1240 +30/-0 mm  
 Other thickness and cuttings are available on request.