

## **VOLTIS® HP 2015D / 2062.8**

### Composition

VOLTIS® HP 2015D / 2062.8 is a phenolic paper laminate conforming PFCP 206 acc. IEC 60893 and Hp 2062.8 acc. DIN 7735.

### Application

VOLTIS® HP 2015D / 2062.8 has exceptionally high temperature and moisture resistance and is therefore an ideal material for electrical and construction industries.

It is also recommended for use in components operating in extreme climatic conditions as the excellent insulating properties of the material are not affected by moisture or variations in temperature.

The material displays good property retention even after short term exposure to high temperatures. For example VOLTIS® HP 2015D / 2062.8 will exhibit good insulation properties after 1 hour at 200°C, but the smooth surface becomes marginally rougher.

### Processing

We recommend that HP 2015D / 2062.8 is cut with hard metal saws.

## Technical Data

Properties	Testmethod	Unit	Value
Density	ISO 1183 / A	g/cm <sup>3</sup>	1,36
Flexural strength	ISO 178	MPa	120
Flexural modulus of elasticity	ISO 178	MPa	9000
Tensile strength	ISO 527	MPa	110
Compressive strength perpendicular to laminations	ISO 604	MPa	250
Electric strength at 90°C in oil perpendicular to laminations (thickness 3mm)	IEC 243	kV/mm	> 7,7
Breakdown voltage at 90°C in oil parallel to laminations	IEC 243	kV	> 25
Permittivity at 1 MHz	IEC 250	-	< 5,5
Dissipation 1 MHz	IEC 250	-	< 0,05
Insulation resistance after immersion in water	IEC 167	Ohm	5 x 10 <sup>10</sup>
Comparative tracking index	IEC 112	-	CTI 100
Thermal endurance	IEC 216	T.I.	120
Water absorption (thickness 3 mm)	ISO 62 / 1	mg	< 90

## Temperature resistance

No delamination after 1h at 200°C.

## Availability

Thickness: 3 - 20 mm, tolerances according IEC 60893

Sheet size: 1070 x 1070 mm  
 2170 x 1070 mm  
 sheet size tolerance + 10 / - 30

Colour: dark brown

Strips and punched parts available on request.