

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.

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Rigid Laminates

Technical Data

| Properties | Testmethod | Unit | Value |
|---|--------------|-------|----------------------|
| Density | ISO 1183 / A | g/cm³ | 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 ¹⁰ |
| 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.

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