

VOLTIS[®] Hgw 2082

Composition

VOLTIS[®] Hgw 2082 is a phenolic woven cotton cloth laminate conforming PF CC 201 acc. IEC 60893.

Application

VOLTIS[®] Hgw 2082 is used for applications like gear running and friction wheels or friction surfaces.

Technical Data

| Properties | Test method | Unit | Value |
|---|--------------|-------------------|-----------------|
| Density | ISO 1183 / A | g/cm ³ | approx. 1,4 |
| Flexural strength length/cross | ISO 178 | MPa | 130/120 |
| Flexural modulus of elasticity | ISO 178 | MPa | approx. 7000 |
| Impact strength (Charpy) parallel to laminations | ISO 179/3 C | kJ/m ² | 10 |
| Tensile strength length/cross | ISO 527 | MPa | 80/65 |
| Electric strength at 90°C in oil perpendicular to laminations (thickness 3mm) ^{*)} | IEC 243 | kV/mm | 1,6 |
| Breakdown voltage at 90°C in oil parallel to laminations ^{*)} | IEC 243 | kV | 8 |
| Permittivity at 50 Hz and 1 MHz | IEC 250 | - | approx. 5 |
| Insulation resistance after immersion in water | IEC 167 | Ohm | 10 ⁶ |
| Comparative tracking index | IEC 112 | - | CTI 100 |
| Thermal endurance | IEC 216 | T.I. | 120 |
| Water absorption (thickness 3 mm) | ISO 62 / 1 | mg | 200 |

^{*)} conditioning 4 h/70°C

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

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 |
| | 160 - 210 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 100 mm thickness) |
| | 1070 ±10 mm x 1250 +30/-10 mm (0,5 to 100 mm thickness) |
| | 2800 +20/-0 mm x 1240 +20/-0 mm (0,5 to 70 mm thickness) |
| | 1400 ±10 mm x 1220 +30/-0 mm (0,5 to 70 mm thickness) |

Cuttings are available on request.

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