

Product Data Sheet PF CC 201

| Property | Method of test | Unit | Max. or min. | Ref Value IEC 60893-3-4 | Test value (median) |
|----------|----------------|------|--------------|-------------------------|---------------------|
|----------|----------------|------|--------------|-------------------------|---------------------|

Mechanical properties

| | | | | | |
|---|------------|-------------------|------|-------|----------------------|
| Flexural stress at rupture perpendicular to laminations | ISO 178 | MPa | Min. | 100 | A 129.00 B 129.01 |
| Apparent modulus of elasticity in flexure | ISO 178 | MPa | Min | 7000* | A 7983 B 6902 |
| Compressive strength perpendicular to laminations | ISO 604 | MPa | Min | | 290.94 |
| Impact strength (Charpy) parallel to laminations | ISO 179/3C | kJ/m ² | Min | 8.8 | A 24.56 B 22.46 |
| Shearing strength parallel to laminations | VDE 0318/2 | MPa | Min | 25* | A 52.83 B 56.81 |
| Tensile strength | ISO 527-4 | MPa | Min | 80* | A 92.48 B 78.17 |

Electrical properties

| | | | | | |
|---|-------------|-------|------|-------|-------|
| Electrical strength at 90°C in oil perpendicular to laminations | IEC 60243-1 | kV/mm | Min. | 0.5** | 1.66 |
| Breakdown voltage at 90°C in oil parallel to laminations | IEC 60243-1 | kV | Min. | 1 | 5 |
| Insulation resistance after immersion in water | IEC 60167 | MOhm | Min. | 1 | 20.10 |
| Proof tracking index PTI | IEC 60112 | PTI | Min. | | |
| Comparative tracking index CTI | IEC 60112 | CTI | Min. | 100* | 150 |
| Tracking and erosion resistance | IEC 60112 | Class | Min. | | |

Other Properties

| | | | | | |
|--------------------------------------|--------------|-------------------|------|-----------|--------------|
| Thermal endurance | IEC 60216 | T.I. | | 120* | |
| Density | ISO 1183 | g/cm ³ | | 1.3 – 1.4 | 1.372 |
| Water absorption 50x50x10 mm | ISO 62 | mg | Max. | 319*** | 207.80 |
| Fire behaviour and fire side effects | DIN 5510 T.2 | | | | S4; SR2; ST2 |

Base material Woven cotton cloth
 Matrix resin: Phenolic

*Typical values as per IEC 60893-4. They shall not be considered as specification requirements.

** For thickness ≥ 3.0 mm.

*** For test specimens 50x50x10 mm

Test values are derived from an average type test

RoHS – Declaration: This material does not contain any substances of very high concern as listed in the EU directive 2011/65/EU, article 4, paragraph 1