

## Technical Data Sheet PF CP 206 (Hp 2062.8)

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Punchable phenolic paper laminate (phenolic resin/paper) per DIN 7735 / EN 60893

### Typical Properties

- Punchable grade (NEMA XXXP) of the phenolic paper laminate range
- Higher compressive strength perpendicular to laminations and documented impact strength
- Good electrical insulating properties
- Good machinability (sawing, milling, drilling, punching)
- Brown colour

### Typical Industries

- Electrical and switchgear engineering
- Electrical industry (insulating parts)
- Punched-parts manufacturing
- Mechanical engineering

|                                        | Test Method | Unit              | Value            |
|----------------------------------------|-------------|-------------------|------------------|
| <b>Mechanical Properties</b>           |             |                   |                  |
| Density                                | DIN 53479   | g/cm <sup>3</sup> | 1.4              |
| Flexural strength 23°C                 | DIN 53452   | MPa               | 80               |
| Impact strength                        | DIN 53453   | kJ/m <sup>2</sup> | 8                |
| Notched impact strength (Charpy)       | DIN 53453   | kJ/m <sup>2</sup> | 2.5              |
| Compressive strength    to laminations | DIN 53454   | MPa               | 120              |
| Cleavage strength                      | DIN 53463   | N                 | 2000             |
| Modulus of elasticity                  | DIN 53457   | MPa               | 7000             |
| <b>Electrical Properties</b>           |             |                   |                  |
| Insulation resistance 24h/23°C         | DIN 53482   | Ω                 | 10 <sup>10</sup> |
| Electric strength    to laminations    | DIN 53481   | kV                | 25               |
| Electric strength ⊥ to laminations     | DIN 53481   | kV                | 30               |
| Dissipation factor 50Hz                | DIN 53483   | –                 | 0.08             |
| Comparative tracking index CTI         | IEC 112     | –                 | 100              |
| <b>General Properties</b>              |             |                   |                  |
| Colour                                 |             |                   | brown            |

The values stated are typical properties per DIN 7735 / EN 60893 for this material type and serve as an aid for material selection. They do not constitute a legally binding guarantee of specific properties. For certain characteristics (including tensile strength, permittivity, thermal conductivity, coefficient of linear expansion, limiting temperature, thermal class, water absorption) no separately documented values are available for this grade; they are therefore not listed here. Actual values may vary slightly depending on sheet thickness and production batch. The currently applicable standards and case-specific data shall govern.