

**APSOplast® PF CP brown**
**Engineering Plastic Technology  
Technical Data Sheet**
**Application purpose and characteristics**

for low voltage applications

good mechanical and electrical properties, good machinability and punching quality

**Product description**

Material name, long description	Phenolic resin laminated paper fabrics
Material name, short description	PF CP
Material Code	PF CP 201.021-00
Color	brown
Density	1.4 g/cm <sup>3</sup>

**Mechanical characteristics**

Flexural modulus of elasticity	Test value: 9000 MPa Test norm: ISO 178
Bending strength	Test value: 150 MPa Test norm: ISO 178
Compressive strength	Test value: 300 MPa Test norm: ISO 604 Test parameter: perpendicular to laminations
	Test value: 150 MPa Test norm: ISO 604 Test parameter: parallel to laminations
Impact strength	Test value: 20 kJ/m <sup>2</sup> Test norm: DIN 53453 Test parameter: a <sub>n</sub> 10 and a <sub>n</sub> 15
Tensile strength	Test value: 120 MPa Test norm: ISO 527
<b>Thermal characteristics</b>	
Thermal longtime behaviour	Test value: 120 Test norm: IEC 60216

**Electrical characteristics**

Dielectric constant	Test value: 5.5 Test norm: IEC 250 Test parameter: at 50 Hz and 1 MHz
Dielectric strength	Test value: 5 kV/mm Test norm: IEC 60243 Test parameter: at 90 °C in oil perpendicular to laminations (thickness 3 mm)
Dielectric tension	Test value: 15 kV Test norm: IEC 60243 Test parameter: at 90 °C in oil parallel to laminations
Comparative tracking index	Test value: CTI 100 Test norm: IEC 112

**Other characteristics**

Water absorption at saturation	Test value: 250 mg Test norm: ISO 62-1
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