

Product Data Sheet PF CP 201

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

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	Min.	135	142.59
Apparent modulus of elasticity in flexure	ISO 178	MPa	Min	7000*	9921
Compressive strength perpendicular to laminations	ISO 604	MPa	Min	300*	305.8
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	Min		13.7
Shearing strength parallel to laminations	VDE 0318/2	MPa	Min	10*	24.44
Tensile strength	ISO 527-4	MPa	Min	120*	158.2

Electrical properties

Electrical strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	Min.		3.25
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	Min.		15
Insulation resistance after immersion in water	IEC 60167	MOhm	Min.		223
Proof tracking index PTI	IEC 60112	PTI	Min.		
Comparative tracking index CTI	IEC 60112	CTI	Min.	100*	120
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*	1.454
Water absorption	ISO 62	mg	Max.	920***	118.10

Base material Cellulosic paper
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