

Product Data Sheet PF CP 203

1650057

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.	120	145,77
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000*	9281
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	250*	316,25
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.		13,06
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	10*	24,92
Tensile strength	ISO 527-4	MPa	min.	100*	96,76

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	8,4**	8,40
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	15	20
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	50	195
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	100*	110
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*	1,453
Water absorption	ISO 62	mg	max.	320***	125,90

Base material Cellulotic paper
Matrix resin: Phenolic

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

** for thickness $\geq 3,0$ mm

*** for test specimens 50 x 50 x 10 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