

Product Data Sheet PF CC 202

1950903

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.	90	A 145,13 B 107,65
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000*	A 8980 B 7226
Compressive strength perpendicular to laminations	ISO 604	MPa	min.		303,38
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.	7,8	A 19,19 B 13,60
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	20*	A 49,84 B 44,08
Tensile strength	ISO 527-4	MPa	min.	60*	A 96,57 B 66,85

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	3**	5,02
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	20	30
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	50	151
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*	1,380
Water absorption	50 x 50 x 10	ISO 62	mg	max.	209***
					181,60

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 $\geq 3,0$ 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