

CELOTEX

PF CC 201
HGW-2082

Product Data Sheet PF CC 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.	100	A 129.00 B 129.01
Apparent modulus of elasticity in flexure	ISO 178	MPa	Min	7000*	A 7983 B 6902
Compressive strength perpendicular to laminations	ISO 604	MPa	Min		290.94
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	Min	8.8	A 24.56 B 22.46
Shearing strength parallel to laminations	VDE 0318/2	MPa	Min	25*	A 52.83 B 56.81
Tensile strength	ISO 527-4	MPa	Min	80*	A 92.48 B 78.17

Electrical properties

Electrical strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	Min.	0.5**	1.66
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	Min.	1	5
Insulation resistance after immersion in water	IEC 60167	MOhm	Min.	1	20.10
Proof tracking index PTI	IEC 60112	PTI	Min.		
Comparative tracking index CTI	IEC 60112	CTI	Min.	100*	150
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	1.372
Water absorption 50x50x10 mm	ISO 62	mg	Max.	319***	207.80
Fire behaviour and fire side effects	DIN 5510 T.2				S4; SR2; ST2

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 ≥ 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