

Product Data Sheet PF CP 206 SQ

Property	Method of test	Unit	max. or min.	Ref. Value DIN- EN 60893-3-4	SQ
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Mechanical properties

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	85	160
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	7000	8000
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	250	300
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.		20
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	20	20
Tensile strength	ISO 527-4	MPa	min.	70	100

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	7,7	6 *
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	25	25
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	1.000	100
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	100*	100
Tracking and erosion resistance	IEC 60112	Class	min.		

other properties

Thermal endurance	IEC 60216	T.I.		105	
Density	ISO 1183	g/cm ³		1,3 - 1,4	1,35 - 1,45
Water absorption	ISO 62	mg	max.	149	149,00

Base material Cellulotic paper
Matrix resin: Phenolic

* in deviation from DIN EN 60893-2 test condition is: 1min test voltage of 6kV in air, room temperature 23° C , as per order specification 06 IR 001 point 8.1 homologation

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