

## Product Data Sheet EP CP 201

1810120

Property	Method of test	Unit	max. or min.	Ref. Value IEC 60893-3-2	Test value (median)
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### Mechanical properties

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	<b>110</b>	A 182,02 B 163,39
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	6000*	A 7833 B 6527
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	160*	229,3
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m <sup>2</sup>	min.	-	A 37,22 B 31,64
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	-	A 29,98 B 28,60
Tensile strength	ISO 527-4	MPa	min.	80*	A 128,40 B 107,48

### Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	<b>13**</b>	16,56
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	<b>35</b>	50
Insulation resistance after immersion in water	IEC 60167	MΩ	min.	<b>10.000</b>	
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	100*	130
Tracking and erosion resistance	IEC 60112	Klasse	min.		

### other properties

Thermal endurance	IEC 60216	T.I.		110*	
Density	ISO 1183	g/cm <sup>3</sup>		1,3 - 1,4*	1,335
Water absorption, absolute	ISO 62	mg	max.	<b>60***</b>	

Base material: Cellulosic paper  
Matrix resin: Epoxy (epoxide)

\* 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 4 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