

Product Data Sheet EP GC 203

1910167

Property	Method of testing	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 RT 130 °C 150 °C	MPa	min.	340 170	452,14 287,27 198,87
Apparent modulus of elasticity in flexure	ISO 178 RT 130 °C 150 °C	MPa	min.	22000*	22.551 17.802 16.287
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	350*	504,52
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.	50	A 103,52 B 103,55
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	A 342,25 B 303,22

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	10,2**	13,61
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	45	50
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	50.000	315.000
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	180*	200
Tracking and erosion resistance	IEC 60112	class	min.		

other properties

Thermal endurance	IEC 60216	T.I.		155*	155
Density	ISO 1183	g/cm ³		1,8 - 2,0*	1,805
Water absorption, absolute	ISO 62	mg	max.	23***	8,00

Base material Woven glass cloth
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