

## Product Data Sheet EP GC 306

1820075

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 150 °C	MPa	min.	<b>340</b> <b>170</b>	472,1 297,4
Apparent modulus of elasticity in flexure	ISO 178 RT 150 °C	MPa	min.	22.000	26.447 22.068
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	350*	635,55
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m <sup>2</sup>	min.	<b>50</b>	A 126,42 B 95,74
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	350,52

### Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	<b>10,2**</b>	13,29
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	<b>45</b>	50
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	<b>50.000</b>	125.100
Proof tracking index PTI	IEC 60112	PTI		<b>500</b>	600
Comparative tracking index CTI	IEC 60112	CTI	min.	600*	600/600M
Tracking and erosion resistance	IEC 60112	Klasse	min.		

### other properties

Thermal endurance	IEC 60216	T.I.		155*	155
Density	ISO 1183	g/cm <sup>3</sup>		1,8 - 2,0*	1,882
Water absorption, absolute	ISO 62	mg	max.	<b>23***</b>	11,90

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