

## Product Data Sheet EP GC 308.15

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.	<b>340</b>	525,59
Apparent modulus of elasticity in flexure	ISO 178 RT 130 °C 150 °C	MPa	min.	22000*	17.794
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	350*	
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m <sup>2</sup>	min.	<b>50</b>	A 126,77 B 105,86
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	369,03

### Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	<b>10,2**</b>	13,33
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>	149.050
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	180*	180
Tracking and erosion resistance	IEC 60112	class	min.		

### other properties

Thermal endurance	IEC 60216	T.I.		180*	>180
Density	ISO 1183	g/cm <sup>3</sup>		1,8 - 2,0*	1,750
Water absorption, absolute	ISO 62	mg	max.	<b>23***</b>	16,40

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