

## Product Data Sheet EP GC 202 red

1920323

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

### Mechanical properties

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	<b>340</b>	A 630,58 B 566,77
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	22000*	A 23390 B 23901
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>42</b>	A 124,92 B 119,64
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	A 425,08 B 339,23

### Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	<b>10,2**</b>	10,31
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>	
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	200*	600/500M
Tracking and erosion resistance	IEC 60112	class	min.		

### other properties

Flammability	IEC 60707	class		<b>V-0</b>	V-0
Thermal endurance	IEC 60216	T.I.		130*	130
Density	ISO 1183	g/cm <sup>3</sup>		1,8 - 2,0*	1,981
Water absorption, absolute	ISO 62	mg	max.	<b>23***</b>	11,70

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