

Product Data Sheet EP GC 26

EP GC 23

Property	Method of testing	Unit	max. or min.	Ref. Value IEC 61212-3-1	Test value (median)
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Mechanical properties

Flexural stress at rupture, perpendicular to laminations	ISO 178	MPa	min.	300	332,23
Compressive strength parallel to laminations (axial)	ISO 604	MPa	min.	175	225,1
Cohesion between layers	IEC 61212-2	MPa	min.	200	341,95

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	7,7	9,90
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	40	50
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	1.000	6.909
Proof tracking index PTI	IEC 60112	PTI			600M
Comparative tracking index CTI	IEC 60112	CTI	min.		600M
Tracking resistance	IEC 60112	Klasse	min.		

other properties

Thermisches Langzeitverhalten	IEC 60216	T.I.		130*	>160
Dichte	ISO 1183	g/cm ³		1,7 - 1,9*	1,760
Wasseraufnahme	ISO 62	mg/cm ²	max.	1,5	0,46

Base material Woven glass cloth
Matrix resin: Epoxy (epoxide)
Compound: halogen free

* Are typical values intended to give only general guidance and are not to be considered as requirement of this standard.

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Certifications Underwriter Laboratories



Flammability	E307596	IEC 60695-11-10	UL 94		V-0	V-0
Hot-wire Ignition	E307596	UL746A	HWI			0
High Amp Arc Ignition	E307596	UL746A	HAI			0
Relative Temperature Index	E307596	UL746A	RTI			130

Fire behaviour and fire side effects of materials and parts DIN 5510 – 2

flammability group	DIN 5510 T.2	class			S 4
smoke emission class	DIN 5510 T.2	class			SR 2
drop forming category	DIN 5510 T.2	class			ST 2
smoke gas toxicity	DIN 5510 An. C	class			FED = 0,01<1

Glowing/hot-wire based test methods

Glow-wire flammability index GWFI	DIN EN 60695-2-12				GWFI: 960/3,0
Glow-wire ignition temperature GWIT	DIN EN 60695-2-13				GWIT: 930/3,0

The test certificates for the special tests have been issued for the sheet material **EP GC 103 S30**, which happens to be identical to the tested material. Usually, the tests are not carried out with tubes.

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