

Product Data Sheet EP GC 308 SY

1910029

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 RT 150 °C 180 °C	MPa	min.	340 170 100	550,68 356,20 359,29
Apparent modulus of elasticity in flexure	ISO 178 RT 150 °C 180 °C	MPa	min.	22000*	26.689 23.748 24.002
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	350*	504,91
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.	50	117,83
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	414,19

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	10,2**	13,03
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	151.680
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	180*	180
Tracking and erosion resistance	IEC 60112	Klasse	min.		

other properties

Thermal endurance	IEC 60216	T.I.		180*	188
Density	ISO 1183	g/cm ³		1,8 - 2,0*	1,838
Water absorption, absolute	ISO 62	mg	max.	23***	13,20

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