

Product Data Sheet SI GC 202

1710160

Property	Method of test	Unit	max. or min.	Ref. Value IEC 60893-3-6	Test value (median)
----------	----------------	------	--------------	--------------------------	---------------------

Mechanical properties

Flexural stress at rupture perpendicular to laminations	ISO 178	MPa	min.	120	186,59
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	13.000*	17.254
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	160*	164,94
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.	25	59,32
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	20*	
Tensile strength	ISO 527-4	MPa	min.	90*	164,94

Electrical properties

Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	5**	6,56
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1	kV	min.	25	40
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	1.000	8.630
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	450*	450
Tracking and erosion resistance	IEC 60112	Klasse	min.		

other properties

Thermal endurance	IEC 60216	T.I.		180*	
Flammability	IEC 60707			V 0	V 0
Density	ISO 1183	g/cm ³		1,6 - 1,9*	1,845
Water absorption, absolute	ISO 62	mg	max.	45***	27,40

Base material: 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