Erhard Hippe KG
Schlosserstrasse 3
03130 Spremberg

Product Data Sheet EP GC 202 S

1520004

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.	**340**	A 645,82 B 538,30
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.	22000*	A 23747 B 22000
Compressive strength perpendicular to laminations	ISO 604	MPa	min.	350*	
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m²	min.	**42**	A 130,61 B 121,11
Shearing strength parallel to laminations	VDE 0318/2	MPa	min.	30*	
Tensile strength	ISO 527-4	MPa	min.	300*	A 432,05 B 388,13
Electrical properties					
Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	**10,2****	13,20
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**	80.400
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.	200*	220
Tracking and erosion resistance	IEC 60112	Klasse	min.		
other properties					
Thermal endurance	IEC 60216	T.I.		130*	
Density	ISO 1183	g/cm³		1,8 - 2,0*	1,925
Water absorption, absolute	ISO 62	mg	max.	**23*****	11,10

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Certifications Underwriter Labratories						
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			
smoke emission class	DIN 5510 T.2	class			
drop forming category	DIN 5510 T.2	class			

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 >= 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