

Product Data Sheet EP GC 23

Property	Method of test	Unit	max. or min.	Ref. Value IEC 61212-3-1	Test Value (median)
Flexural stress at rupture, perpendicular to laminations	ISO 178	MPa	min.	300	354,04
Apparent modulus of elasticity in flexure	ISO 178	MPa	min.		
Compressive strength parallel to laminations (axial)	ISO 604	MPa	min.	175	177,98
Impact strength (Charpy) parallel to laminations	ISO 179/3C	kJ/m ²	min.		
Cohesion between layers	IEC 61212-2	MPa	min.	200	378,04
Tensile strength	ISO 527-4	MPa	min.		
Electric strength at 90°C in oil perpendicular to laminations	IEC 60243-1	kV/mm	min.	7,7	13,25
Breakdown voltage at 90°C in oil parallel to laminations	IEC 60243-1 1 min testing voltage	kV	min.	40	50
Electric strength at room temperature in air perpendicular to laminations	KUN 567.15 1 min testing voltage	kV/3 mm	min.		
Permittivity at 50 Hz	6.2		max.		
Permittivity at 1 MHz	6.2		max.	5,2*	
Dissipation factor at 50 Hz	6.2		max.	0,05*	
Dissipation factor at 1 MHz	6.2		max.	0,04*	
Insulation resistance after immersion in water	IEC 60167	MOhm	min.	1.000	16.320
Proof tracking index PTI	IEC 60112	PTI			
Comparative tracking index CTI	IEC 60112	CTI	min.		
Tracking resistance	IEC 60112	Class	min.		
Thermal endurance	IEC 60216	T.I.		130*	130
Flammability	IEC 60707	Class		V-0	V-0
Density	ISO 1183	g/cm ³		1,70 - 1,90*	1,656
Water absorption, absolute	ISO 62	mg/cm ²	max.	1,5	0,21
Water absorption, relative	ISO 62	%	max.		
Glass transition temperature T _G	DSC	°C	min.		

Base material: Woven E-glass cloth 58%
Matrix resin: modified Epoxy (epoxide) 42%

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

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