



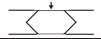


PRODUCT DATA SHEET

BAGGES TGE-1

RoHSII: The material is in compliance with EU directive 2011/65/EU (RoHS II)

Components: Glass fabric - Epoxy
Color: Light yellow

Nema L1-1: G-10
DIN 7735: Hgw 2375
IEC 61212 EP GC 21

Mechanical Properties		Testmethods	Thickness	Value	Unit	
Flexural strength		ISO 178	id > 100mm	350	MPa	*1
Compressive strength axial		ISO 604		200	MPa	*1
Cohesion between layers		IEC 61212-2 4.3	id < 100mm	400	MPa	*1
Electrical properties						
Electric strength in oil at 90°C		IEC 60243-1	B) 3,0 mm	11.0	kV/mm perpendicular	*2
Electric strength in oil at 90°C		IEC 60243-1	B) 3,0 mm	60	kV/25mm parallel	*2
Permittivity 50 Hz		IEC 60250		4.5		*3
Permittivity 1 MHz		IEC 60250		4.5		*3
Dissipation factor 50 Hz		IEC 60250		0.010		*3
Dissipation factor 1 MHz		IEC 60250		0.010		-
Insulation resistance after immersion in water		IEC 60167	A)	10000	M Ω	*4
Physical and thermal properties						
Thermal endurance index 20.000h (T.I.)		IEC 60216	≥ 3,0 mm	140	°C	-
Density		IEC 1183-A	All	1.75	g/cm ³	*1
Water absorption		IEC 62-1	50x50x3 mm	0.2	mg/cm ²	*4
Characteristics and applications						
Particularly good electrical and mechanical properties. Extremely high mechanical strength. Retains electrical properties at high air humidity. High resistance to chemicals. Construction and insulation material in large rotating electrical machines and insulation cylinders in dry transformers.						

Notes:	*Conditioning
A) ID > 8mm and/or OD > 10mm	1: 24h/23°C/50%RH
B) Wall thickness	2: 24h/23°C/50%RH + 1h/Oil 90°C
C) 230 MPa measured at 150°C	3: 96h/105°C + 1h/23°C/20%RH
D) Wall thickness ≥ 4,0mm	4: 24h/50°C + 24h/water 23°C
	5: 96h/105°C + 1h/Oil 90°C

The data mentioned in this data sheet is after our knowledge correct, but we reserve the right to make changes without notice.

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