

PRODUCT DATA SHEET

BAGGES TGM

RoHSII :	The material is in compliance with EU directive 2011/65/EU (RoHS II)	Components :	Glass fabric - Melamine
Color :	White	Nema L1-1 :	G-5
DIN 7735 :	HGW 2275	IEC 61212 :	MF GC 21

Mechanical Properties	TestMethod	Value	Unit	Thickness	Note
Flexural strength	ISO 178	300	MPa	id > 100mm	*1
Compressive strength axial	ISO 604	180	MPa		*1
Cohesion between layers	IEC 61212-2 4.3	250	MPa	id < 100mm	*1
Physical Properties					
Density	IEC 1183-A	1,80	g/cm3	All	*1
Water absorption after (24h 23°C)	IEC 62/1	1,0	mg/cm2	50x50x3 mm	*4
Electrical Properties					
Electric strength in oil at 90°C	IEC 60243-1	3,3	kV/mm perpendicular	B) 3,0 mm	*2
Electric strength in oil at 90°C	IEC 60243-1	30	kV/25mm parallel	B) 3,0 mm	*2
Permittivity 50 Hz	IEC 60250	6,0			*3
Permittivity 1 MHz	IEC 60250	6,0			*3
Dissipation factor 50 Hz	IEC 60250	0,020			*3
Dissipation factor 1 MHz	IEC 60250	0,010			-
Insulation resistance after immersion in water	IEC 60167	1000	M Ω	A)	*4
Thermal Properties					
Thermal endurance index 20.000h (T.I.)	IEC 60216	130	°C	≥ 3,0 mm	-

Characteristics and applications / Notes and Conditioning

Mechanical and electrical applications. Arc-resistant and tracking-resistant material. Good flame resistance. Self-extinguishing. Halogen-free. Lower high-voltage values and insulation resistance than the other glass fabric types.

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.

rev: 09/2021