

PRODUCT DATA SHEET

BAGGES TGS

RoHSII :	The material is in compliance with EU directive 2011/65/EU (RoHS II)	Components :	Glass fabric - silicone
Color :	White	Serial no :	820
Nema L1-1 :	G-7	DIN 7735 :	Hgw 2375
IEC 61212 :	SI GC 21		

Mechanical Properties	TestMethod	Value	Unit	Thickness	Note
Flexural strength	ISO 178	120	MPa	id > 100mm	*1
Compressive strength axial	ISO 604	65,0	MPa		*1
Cohesion between layers	IEC 61212-2 4.3	150	MPa	id < 100mm	*1
Physical Properties					
Density	IEC 1183-A	1,80	g/cm3	All	*1
Water absorption	IEC 62/1	0,2	mg/cm2	50x50x3 mm	*4
Electrical Properties					
Electric strength in oil at 90°C	IEC 60243-1	6,7	kV/mm	B) 3,0 mm	*2
Electric strength in oil at 90°C	IEC 60243-1	40	kV/25mm	B) 3,0 mm	*2
Permittivity 50 Hz	IEC 60250	4,0			*3
Permittivity 1 MHz	IEC 60250	4,0			*3
Dissipation factor 50 Hz	IEC 60250	0,006			*3
Dissipation factor 1 MHz	IEC 60250	0,006			*3
Insulation resistance after immersion in water	IEC 60167	5000	M Ω	A)	*4
Thermal Properties					
Thermal endurance index 20.000h (T.I.)	IEC 60216	210	T.I.	≥ 3,0 mm	-

Characteristics and applications / Notes and Conditioning

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

