

PRODUCT DATA SHEET

BAGGES SGMP-HP

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









Components: Glass mat - polyester

Color: Off white

Nema L1-1: - GPO-3

DIN 7735: - Hm 2472

IEC/EN 60893-3-1: UP GM 203

Mechanical Properties		Testmethods	Thickness	Value	Unit	
Flexural strength at RT		ISO 178	≥ 1,6mm	160	MPa	*1
Flexural strength at elevated temp.		ISO 178	≥ 1,6mm	70	MPa	C)
Modulus of elasticity		ISO 178	≥ 1,6mm	10000	MPa	*1
Compressive strength		ISO 604	≥ 5,0mm	300	MPa	*1
Izod impact strength, parallel		ISO 180/2A	≥ 5,0mm	50	kJ/m ²	*1
Shearing strength, parallel		ISO 60893-2	≥ 5,0mm	35.0	MPa	*1
Tensile strength		ISO 527	≥ 1,6mm	100	MPa	*1
Electrical properties						
Electric strength in oil at 90°C		IEC 60243-1	3,0 mm	11.5	kV/mm	*2
Electric strength in oil at 90°C		IEC 60243-1	≥ 3,0 mm	60	kV/25mm	*2
Permittivity 50 Hz		IEC 60250	≥ 1,6mm	4.0		*3
Permittivity 1 MHz		IEC 60250	≥ 1,6mm	4.0		*3
Dissipation factor 50 Hz		IEC 60250	≥ 1,6mm	0.040		*3
Dissipation factor 1 MHz		IEC 60250	≥ 1,6mm	0.040		*3
Insulation resistance after immersion in water		IEC 60167	All	1000	M Ω	*4
Comparative tracking index		IEC 60112	≥ 3,0 mm	600	CTI	*1
Physical and thermal properties						
Thermal endurance index 20.000h (T.I)		IEC 60216	≥ 3,0 mm	155.0	°C	-
Flammability		IEC 60695-11-10	3,0 mm	V-0		*1
Density		IEC 1183-A	All	1.85	g/cm ³	*1
Water absorption		IEC 62-1	50x50x3 mm	30	mg	*4

As standard GPO-3, but mechanically even stronger. The colour is off-white.

Notes:	*Conditioning
A) Thickness > 8mm	1: 24h/23°C/50%RH
B) Thickness ≥ 4,0mm	2: 24h/23°C/50%RH + 1h/Oil 90°C
C) 1 h/130°C / measured at 130°C	3: 96h/105°C + 1h/23°C/20%RH
D) 1 h/150°C / measured at 150°C	4: 24h/50°C + 24h/water 23°C
E) 1 h/180°C / measured at 180°C	5: 96h/105°C + 1h/Oil 90°C
F) 1 h/200°C / measured at 200°C	

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