PRODUCT DATA SHEET

BAGGES SPP-MM

RoHSII :	The material is in compliance with EU directive 2011/65/EU (RoHS II)	**Components :**	Paper phenolic/Melamine
Color :	Grey/also other colour	**Nema L1-1 :**	-
DIN 7735 :	-	**EN 60893 :**	-

Mechanical Properties	TestMethod	Value	Unit	Thickness	Note
Flexural strength at RT	ISO 178	120	MPa	≥ 1,6mm	*1
Flexural strength at elevated temp.	ISO 178	-	MPa	≥ 1,6mm	-
Modulus of elasticity	ISO 178	10000	MPa	≥ 1,6mm	*1
Compressive strength	ISO 604	300	MPa	≥ 5,0mm	*1
Izod impact strength, parallel	ISO 180/2A	3,3	kJ/m2	≥ 5,0mm	*1
Shearing strength, parallel	ISO 60893-2	35,0	MPa	≥ 5,0mm	*1
Tensile strength	ISO 527	90	MPa	≥ 1,6mm	*1
Physical Properties					
Flammability	IEC 60695-11-10	V-0		≥ 5,0 mm	*1
Density	IEC 1183-A	1,40	g/cm3	All	*1
Water absorption	IEC 62/1	100	mg	50x50x3 mm	*4
Electrical Properties					
Electric strength in oil at 90°C	IEC 60243-1	5,0	kV/mm perpendicula	3,0 mm	*2
Electric strength in oil at 90°C	IEC 60243-1	15	kV/25mm parallel	≥ 3,0 mm	*2
Permittivity 50 Hz	IEC 60250	6,0		≥ 1,6mm	*3
Permittivity 1 MHz	IEC 60250	-		≥ 1,6mm	-
Dissipation factor 50 Hz	IEC 60250	0,040		≥ 1,6mm	*3
Dissipation factor 1 MHz	IEC 60250	-		≥ 1,6mm	-
Insulation resistance after immersion in water 1MHz	IEC 60167	100	M Ω	All	*4
Comparative tracking index	IEC 60112	500	CTI	≥ 3,0 mm	*1
Thermal Properties					
Thermal endurance index 20.000h (T.I)	IEC 60216	120	T.I.	≥ 3,0 mm	-

Characteristics and applications / Notes and Conditioning
The same base material as Etronit IIQ, i.e. electrical properties adequate for insulation in low-voltage constructions. Self-extinguishing surface at thicknesses over 8 mm. Busbar holders in electrical distribution systems. Partition plates, backplates and mounting plates.

Characteristics and applications / Notes and Conditioning

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	

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