

PRODUCT DATA SHEET

BAGGES TPP

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



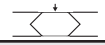


Components: Paper - phenolic

Color: Dark Brown

Nema L1-1: XX

DIN 7735: Hp 2065

IEC 61212 PF CP 21

Mechanical Properties		Testmethods	Thickness	Value	Unit	
Flexural strength		ISO 178	id > 100mm	130	MPa	*1
Compressive strength axial		ISO 604		140	MPa	*1
Cohesion between layers		IEC 61212-2 4.3	id < 100mm	160	MPa	*1
Electrical properties						
Electric strength in oil at 90°C		IEC 60243-1	B) 3,0 mm	8.3	kV/mm perpendicular	*2
Electric strength in oil at 90°C		IEC 60243-1	B) 3,0 mm	25	kV/25mm parallel	*2
Permittivity 50 Hz		IEC 60250		5.0		*3
Permittivity 1 MHz		IEC 60250		-		-
Dissipation factor 50 Hz		IEC 60250		0,040		*3
Dissipation factor 1 MHz		IEC 60250		-		-
Insulation resistance after immersion in water		IEC 60167	A)	10	M Ω	*4
Physical and thermal properties						
Thermal endurance index 20.000h (T.I.)		IEC 60216	≥ 3,0 mm	120	°C	-
Density		IEC 1183-A	All	1.25	g/cm ³	*1
Water absorption		IEC 62-1	50x50x3 mm	4.5	mg/cm ²	*4
Characteristics and applications						
For mechanical and electrical applications in low-voltage constructions. Good electrical properties at normal air humidity. Also used as winding tubes in the foil and metal foil industries. Carrier tubes for polishing brushes.						

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. 11/2015