KARL SCHUPP AG

CONDUCT – PROTECT – INSULATE



Presspan is a product made from the cellulose of the purest, long-fiber woods. This is formed into a fiber fleece and then pressed. Due to its high chemical purity, pressed wood is used particular as an insulating material in electrical machines (resin-impregnated), capacitors (oil- or resin-impregnated) and especially in oil-filled transformers. The material properties allow classification in insulation class A (105°C) and are manufactured in accordance with the IEC standard. Depending on the thickness of the material, a distinction is made between sheet and roll pressboard.

Pressboard

Specifications

Application:
Insulation in transformers for phase separation

Structure:
Very dense, calendered material made of sulphate cellulose, completely free of impurities

Temp. Class:
A (105 °C)

Properties: (acc. DIN 7733)	Unit of measurement	Values	Test standard
Conductivity in aqueous solution	[nS/cm]	100	DIN 7734
Longitudinal tensile strength	[N/mm2]	≥ 80	DIN 7734
Transverse tensile strength	[N/mm2]	≥ 55	DIN 7734
Longitudinal elongation	[%]	≥ 6	DIN 7734

Properties: (cc. DIN 7733)	Unit of measurement	Values	Test standard
Transverse elongation	[%]	≥ 8	DIN 7734
Dielectric strength	[kV/mm]	≥ 10	DIN 7734
Ash content	[%]	≤ 2	DIN 7734
Maximum moisture absorption	[%]	≤ 8	DIN 7734
Density	[g/cm3]	1,20 - 1,30	DIN 7734
linear expansion coefficient	[K-1]	5 x 10-6	
Thermal conductivity	[W/(m * K)]	0,45	
Dielectric constant		4,1 - 4,4	
Specific volume resistance	[Ω * cm]	1014 - 1015	
Storage conditions		dry room, in original packaging	

Formats:

1000 x approx. 2100 mm
1000 x approx. 1050 mm
1000 x approx. 700 mm

Dimensions:

Item number		Thickness [mm]	Thickness deviation [mm]	Mass per unit area [g/m2]
PS080	*	0,8	± 0,05	880
PS100	*	1,0	± 0,07	1100
PS150	*	1,5	± 0,10	1650
PS200	*	2,0	± 0,10	2200
PS250	*	2,5	± 0,12	2750
PS300	*	3,0	± 0,15	3300
PS350	*	3,5	± 0,20	3850
PS400	*	4,0	± 0,20	4400

* ex works warehouse, minimum order quantity 30 kg