

Presspahn Grade K

ELEPHANTIDE® Grade K is manufactured on a multi-vat cylinder machine which enables a continuous web of processed fibres to be built up in homogeneous layers on successive cylinders. This construction provides maximum electrical and mechanical strength.

ELEPHANTIDE® Grade K is available in thicknesses between 0.1mm to 1.0mm, and with lamination (pressboard) thickness of up and over 20mm can be archived. This grade is most frequently used in oil immersed transformers and power capacitors. Due to its purity of finish it can be used in monoisopropylbiphenyl (mipb's) and silicone based fluid impregnates. This ELEPHANTIDE® grade is also widely used in the insulation of fhp motors, either unsupported or in combination with a polyester film (yielding a Class 'E' insulation).

The excellent physical, electrical and mechanical properties of this grade make it ideally suited for punching, creasing and folding in to components used in an infinite variety of applications.



Technical Data	
Standards Achieved	JIS C 2305 PB-2 Pressboards for Electrical Purposes
	BS EN 60641 P.4.1.A Pressboards and Presspaper for Electrical Purposes
Furnish	Pure Kraft Wood Pulp 100%
Colour	Natural Buff
Thickness Tolerance	+/- 10%

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Parameter	Unit	Typical Values	
Apparent Density	g/cm ³	1.05 to 1.15	
Tensile Strength			
MD	N/mm ²	80 to 120	
CMD	N/mm ²	40 to 60	
Electric Strength	KV/mm	In Air	In Oil
0.10 mm		11 to 15	98 to 101
0.127 mm		11 to 16	75 to 86
0.20 mm		11 to 16	72 to 88
0.25 mm		10 to 14	65 to 79
0.30 mm		10 to 13	68 to 72
0.40 mm		10 to 11	58 to 69
0.45 mm		9 to 11	56 to 62
0.50 mm		9 to 10	57 to 60
Conductivity	mS/m	2.0 to 4.0	
pH of Aqueous Extract		7 to 8.5	
Ash Content	%	0.2 to 0.5	