



TRANSFORMER INSULATING PRESSBOARD

SIGMALEK 2.1: Medium density Calendered Pressboard

General Classification

Sigmalek 2.1 is made from 100 % high purity sulfate kraft wood pulp. This board is calendered to medium density which makes it versatile, with excellent insulation and mechanical strength and is used in all applications in oil cooled transformers.

Standard thickness of solid board

0.8, 1.0, 1.5, 2.0 & 3.0 mm

Thickness above 4.0 mm upto 5.0 mm are supplied on specific request

Standard Size of Solid Board (in mm)

Width	Length
1800	2700
1350	2000
1000	1350

Tolerance on thickness:

$\leq 1.50 \text{ mm} \pm 7.5\%$

$> 1.50 \text{ mm} \pm 5.0\%$

On sheet size : $\pm 5.0 \text{ mm}$

Non standard thickness can be produced within the range. However minimum order quantity will have to be 1MT.



Reference Grade & Standard		SIGMALEK 2.1 IEC 60641-3-1, B 2.1 A
Color		Natural Light Brown
Physical Properties		
Density, g/cc, range		1.0 – 1.20
Moisture content, %, max		8.0
Shrinkage MD, %, max		0.70
Shrinkage CD, %, max		1.0
Shrinkage PD, %, max		5.0
Chemical Properties		
Conductivity of aqueous extract, mS/m, max		8.0
pH of. Aqueous extract, range		6.0 - 9.0
Oil absorption, %, min		15.0
Ash content, %, max		1.0
Mechanical Properties		
Tensile Strength, MD/CD (Mpa), min		80/55
≤1.50 mm		80/55
> 1.5 - 3.0 mm		80/50
> 3.0 - 6.0 mm		6/8
Elongation, (%), min MD/CD		6/8
Electric Strength Properties		
Electric Strength (kV/mm), min <u>Air/Oil</u>		14/40
≤1.50mm		13/30
> 1.5 - 3.0 mm		12/25
> 3.0 - 6.0 mm		