



SIGMACOM 3.1

High density Precompressed pressboard

General Classification

Sigmatom is made from 100% high purity unbleached sulfate kraft pulp. The wet board is pressed & dried simultaneously to obtain boards of good dimensional stability, mechanical strength & electric strength. Good mechanical strength & compressibility make Sigmatom 3.1 an ideal board for manufacture of various machined components such as radial & axial spacers, cylinders, runners & blocks.

Standard thickness of solid board

1.0, 1.5, 2.0, 3.0, 4.0, 5.0 & 6.0 mm

Standard sheet sizes in mm

Width	Length
2120	4200
2120	3200
2120	1600
2120	2000
2120	1050

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		SIGMACOM B 3.1 IEC 60641-3-1, B 3.1
Color & Appearance: Natural Brown & Matte with mesh mark on both sides		
Physical Properties		
Density, g/cc, range	≤1.50 mm	1.00 - 1.20
	> 1.5 - 3.0 mm	1.10 - 1.25
	> 3.0 - 6.0 mm	1.15 - 1.30
Moisture content, %, max		6.0
Shrinkage MD, %, max		0.50
Shrinkage CD, %, max		0.70
Shrinkage PD, %, max		5.0
Chemical I Properties		
Conductivity of Aqueous extract, mS/m, max	≤1.50 mm	5.0
	> 1.5 - 3.0 mm	6.0
	> 3.0 - 6.0 mm	8.0
pH of. Aqueous extract, range		6.0 - 9.0
Oil absorption, %, min	≤1.50 mm	11.0
	> 1.5 - 3.0 mm	9.0
	> 3.0 - 6.0 mm	7.0
Ash content, %, max		1.0
Mechanical Properties		
Tensile Strength (Mpa), min MD/CD	≤1.50 mm	100/75
	> 1.5 - 3.0 mm	105/80
	> 3.0 - 6.0 mm	110/85
Elongation, (%), min, MD/CD		3/4
Compressibility 'C', (%), max	≤1.50 mm	10.0
	> 1.5 - 3.0 mm	7.5
	> 3.0 - 6.0 mm	5.0
Reversible part of Compressibility 'Crev', (%), min	≤1.50 mm	45
	> 1.5 - 3.0 mm	50
	> 3.0 - 6.0 mm	50
Electric Strength Properties		
Electric Strength Air/Oil (kV/mm), min	≤1.50 mm	12/40
	> 1.5 - 3.0 mm	11/35
	> 3.0 - 6.0 mm	10/30