

## TRANSFORMERBOARD T 7

### FOR HIGHLY CURVED INSULATION COMPONENTS

Typical applications of Transformerboard T7 are tightly curved pieces for example tubes and folded pieces in power, distribution and special transformers. Transformerboard T7 is a shapeable pressboard. The two main components of Transformerboard T7 are unbleached kraft paper grade pulp combined with pure water. The special properties of shapeable board are produced on a board machine with a hot press. The entire manufacturing

process, from preparation of the pulp to forming and drying of the sheet material, is monitored and controlled by modern process control systems. The development and in-line installation of a highly sensitive metal detector guarantees the board is free from metallic particles.



Sheet handling section



Fixation elements

# PRELIMINARY VALUES

Thickness	Master size	Standard size	Special size	Tolerance (thickness %)	Norm
0.8 mm	6300 x 3200 mm	6300 x 3200 mm	6300 x 2100 mm	± 7.5	IEC 60641-3-1, type B.5.3
1.0 mm		6300 x 1600 mm	6300 x 1065 mm	± 7.5	
1.5 mm		4200 x 3200 mm	4200 x 2100 mm	± 7.5	
2.0 mm		4200 x 1600 mm	3200 x 1600 mm	± 5	
2.5 mm		3200 x 3150 mm	1600 x 1400 mm	± 5	
3.0 mm		3200 x 2100 mm	1065 x 1400 mm	± 5	
4.0 mm		3150 x 1600 mm	1065 x 1050 mm	± 5	
5.0 mm		2100 x 1600 mm		± 5	
6.0 mm		2100 x 1065 mm		± 5	

Property	Unit	Range of thickness (mm)	Typical value
Apparent density	g/cm <sup>3</sup>	0.8 - 6.0	0.8 - 1.0 *
Tensile strength, machine direction	MPa	0.8 - 6.0	60
Tensile strength, cross machine direction	MPa	0.8 - 6.0	50
Elongation, machine direction	%	0.8 - 6.0	4.2 *
Elongation, cross machine direction	%	0.8 - 6.0	4.2 *
Plybond resistance	N/30 mm	0.8 - 6.0	400
Moisture content	%	0.8 - 6.0	6
Ash content	%	0.8 - 6.0	0.4
Shrinkage, machine direction	%	0.8 - 6.0	0.4
Shrinkage, cross machine direction	%	0.8 - 6.0	0.5
Shrinkage, thickness	%	0.8 - 6.0	4.4
Conductivity of aqueous extract	mS/m	0.8 - 6.0	5
pH of aqueous extract	–	0.8 - 6.0	7
Oil absorption	%	0.8 - 6.0	30
Electrical strength in oil	kV/mm	≤ 1.6	40
		> 1.6	35

\* Typical value not according to IEC-Norm