



Paper Pressboard

Paper pressboard is made of 100% high purity sulphate wood pulp by hot pressing. Due to its good compatibility and good mechanical strength, it is widely used for transformer layer insulation and coil winding, and it is also a base material for HV molded components.

Standard

- GB/T19264.3-2003
- IEC60641-3-1:2008

Raw Material

100% high purity sulphate wood pulp

Size

- 1000*2000*0.5/0.8/1.0/1.5/2.0/3.0/4.0/5.0mm
- 1400*2100*1.0/1.5/2.0/3.0/4.0/5.0mm
- 2100*4200*1.0/1.5/2.0/3.0/4.0/5.0mm




Certificate Available

UL RoHS REACH MSDS CEMT
 Factory Inspection Report

Characteristics

- ✓ Excellent insulation performance, aging resistance and mechanical properties
- ✓ High electrical strength and low shrinkage
- ✓ High density and flatness
- ✓ Good compatibility with liquid dielectrics

Industries

-  Oil Transformer
-  Capacitor
-  Electrical Industry

Technical Data Sheet

Product name		Unit	Pressboard (10kV)					Pressboard (35kV)				
SECTION I - MAIN CHARACTERISTICS												
Thickness	mm	0.8	1.0	2.0	3.0	4.0	0.8	1.0	2.0	3.0	4.0	
Density	g/cm ³	0.90-1.15	0.95-1.15	1.0-1.2	1.0-1.2	1.0-1.2	0.95-1.15	0.95-1.15	1.0-1.2	1.0-1.2	1.0-1.2	
Water content	%	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	
pH of aqueous extract	N/A	6.0 -9.0					6.0 -9.0					
Oil absorption	%	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15	≥15	
Ash content	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	
Colour	Natural											
SECTION II - MECHANICAL CHARACTERISTICS												
Tensile strength	MD	MPa	≥50	≥50	≥55	≥55	≥55	≥55	≥55	≥60	≥60	≥60
	CMD		≥30	≥30	≥35	≥35	≥35	≥35	≥35	≥40	≥40	≥40
Elongation	MD	%	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0	≥3.0
	CMD		≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0	≥4.0
Shrinkability	MD	%	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7
	CMD		≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
	TD		≤7.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0	≤5.0
SECTION III - ELECTRICAL DATA												
Electric strength	In air	kV/mm	≥9.0	≥10.0	≥11.0	≥11.0	≥11.0	≥10.0	≥10.0	≥11.0	≥11.0	≥11.0
Electric strength	In oil (90°C)	kV	≥30	≥35	≥40	≥40	≥40	≥35	≥35	≥40	≥40	≥40
Conductivity of the aqueous extract		mS/m	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0	≤8.0

Note: All information, recommendations and suggestions appearing herein concerning this product are average values ascertained at room temperature by regular statistical analysis. It is provided purely for information and shall not be regarded as binding unless expressly agreed otherwise.

THICKNESS TOLERANCE

Thickness (mm)	Tolerance (%)	Thickness (mm)	Tolerance (%)
≤ 1.6	±7.5	1.6-3.0	± 5.0
4.0-8.0	± 5.0	> 8.0	± 5.0



Technical Data Sheet

Product name		Unit				Pressboard (66kV)				Z4 Pressboard (110kV)				
SECTION I - MAIN CHARACTERISTICS														
Thickness	mm	≤1.6	1.6<T≤3.0	3.0<T≤6.0	>6.0	≤1.6	1.6<T≤3.0	3.0<T≤6.0	>6.0	≤1.6	1.6<T≤3.0	3.0<T≤6.0	>6.0	
Density	g/cm ³	0.95-1.15	1.05-1.20	1.10-1.25	1.10-1.25	1.00-1.20	1.10-1.25	1.15-1.30	1.15-1.30	1.00-1.20	1.10-1.25	1.15-1.30	1.15-1.30	
Water content	%	≤6				≤6								
pH of aqueous extract	N/A	6.0 -9.0				6.0 -9.0								
Oil absorption	%	≥13	≥11	≥9	≥8	≥11	≥9	≥7	≥6	≥11	≥9	≥7	≥6	
Ash content	%	≤0.6				≤0.5								
Colour	Natural													
SECTION II - MECHANICAL CHARACTERISTICS														
Tensile strength	MD	MPa	≥80	≥85	≥90	≥90	≥100	≥105	≥110	≥110	≥100	≥105	≥110	≥110
	CMD		≥45	≥50	≥55	≥55	≥75	≥80	≥85	≥85	≥75	≥80	≥85	≥85
Elongation	MD	%	≥3.0	≥3.0	≥3.0	≥3.0	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5
	CMD		≥4.0	≥4.0	≥4.0	≥4.0	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5
Compressibility	%	≤11.0	≤7.5	≤5.0	≤4.5	≤10.0	≤7.5	≤5.0	≤4.0	≤10.0	≤7.5	≤5.0	≤4.0	
Shrinkability	MD	%	≤0.7	≤0.7	≤0.7	≤0.7	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	CMD		≤1.0	≤1.0	≤1.0	≤1.0	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7	≤0.7
	TD		≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
SECTION III - ELECTRICAL DATA														
Electric strength	In air	kV/mm	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0	≥12.0
Electric strength	In oil (90°C)	kV	≥40	≥35	≥35	≥35	≥45	≥35	≥35	≥45	≥35	≥35	≥35	≥35
Conductivity of the aqueous extract	mS/m	≤5.0	≤6.0	≤8.0	≤10.0	≤5.0	≤6.0	≤8.0	≤10.0	≤5.0	≤6.0	≤8.0	≤10.0	

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DIMENSIONAL TOLERANCE

Thickness (mm)	Tolerance (%)	Thickness (mm)	Tolerance (%)
≤ 1.6	±7.5	1.6-3.0	± 5.0
4.0-8.0	± 5.0	> 8.0	± 5.0

Standard Packing

