Technical Data Sheet

Lignostone® M II-2-E3-HQ

Laminated Densified Wood

Typical characteristics

- High red beech veneer quality; crosswise stacked
- High mechanical strength at medium density
- Laminated densified wood C4R according to the standard IEC 61061

Typical industries

- 变压器
- 电气行业
- 电气绝缘元件
- Lignostone Transformerwood - 适用于变压器的材料
- 油浸式变压器

	Test method	Unit	Guideline value
Mechanical properties			
Density	IEC 61061	g / cm^3	1.25
Flexural strength ⊥	IEC 61061	MPa	130
Modulus of elasticity in flexion ⊥	IEC 61061	MPa	11 000
Compressive strength ⊥	ISO 604	MPa	230
Compressive strength II	ISO 604	MPa	90
Shear strength II	IEC 61061	MPa	11
Thermal properties			
Thermal conductivity	DIN 52612	W/m K	0.22
Operating temperature continuous	DIN 7707	°C	100
Temperature limit when drying	DIN 7707	°C	130
Physical properties			
Oil absorption	IEC 61061	%	7
Moisture content	IEC 61061	%	5
Dielectrical properties			
Electric strength 90°C under oil ⊥	IEC 61061	kV / mm	17
Electric strength 90°C under oil II	IEC 61061	kV/25mm	80
Relative permittivity (50 Hz)	IEC 60250	ε_r	3.7
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0.01

	Test method	Unit	Guideline value
Specific volume resistance	IEC 60093	Ω x cm	10^{12}

$^{\perp}$ = perpendicular to the lamination

II = parallel to the lamination

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