

Technical Data Sheet

Lignostone[®] L II/2-E3-TQ

Laminated Densified Wood

Typical characteristics

- High mechanical strength at low density
- Laminated densified wood C2R according to the standard IEC 61061
- Top red beech veneer quality; crosswise stacked

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	0,95
Flexural strength \perp	IEC 61061	MPa	110
Modulus of elasticity in flexion \perp	IEC 61061	MPa	9000
Compressive strength \perp	ISO 604	MPa	200
Compressive strength II	ISO 604	MPa	70
Shear strength II	IEC 61061	MPa	10
Thermal properties			
Thermal conductivity	DIN 52612	W/m K	0,22
Operating temperature continuous	DIN 7707	°C	105
Temperature limit when drying	DIN 7707	°C	140
Physical properties			
Oil absorption	IEC 61061	%	25
Moisture content	IEC 61061	%	5
Dielectrical properties			
Electric strength 90°C under oil \perp	IEC 61061	kV / mm	18
Electric strength 90°C under oil II	IEC 61061	kV/25mm	90
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	3,7
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	0,01

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	Test method	Unit	Guideline value
Specific volume resistance	IEC 60093	$\Omega \times \text{cm}$	10^{12}

⊥ = perpendicular to the lamination || = parallel to the lamination

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