

Technical Data Sheet

Lignostone[®] L I/2-E3-HQ (P2R)

Laminated Densified Wood

Typical characteristics

- High red beech veneer quality; parallel stacked
- High mechanical strength at low density

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 ¹⁾ ⊥	IEC 61061	MPa	150
Modulus of elasticity in flexion ¹⁾ ⊥	IEC 61061	MPa	12000
Compressive strength ⊥	ISO 604	MPa	120
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	130
Physical properties			
Oil absorption	IEC 61061	%	25
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
Specific volume resistance	IEC 60093	Ω x cm	10 ¹²

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L = perpendicular to the lamination
II = parallel to the lamination

¹⁾ Minimum 4 longitudinal layers in the tension zone

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