

Technical Data Sheet

Lignostone[®] L X-2-E3-HQ

Typical characteristics

- High mechanical strength at low density
- High red beech veneer quality; tangential stacked
- Laminated densified wood T2R according to the standard IEC 61061

Typical industries

- Transformer
- Electrical Industry
- Electrical Insulating Components
- Lignostone Transformerwood - for transformers
- Oil-filled transformers

	Test method	Unit	Guideline value
Mechanical properties			
Density	IEC 61061	g / cm ³	0,95
Flexural strength \perp - Ring \varnothing >1000 mm ¹⁾	IEC 61061	MPa	130
Modulus of elasticity in flexion \perp	IEC 61061	MPa	11000
Compressive strength \perp	ISO 604	MPa	120
Compressive strength II	ISO 604	MPa	80
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 \perp	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	$\Omega \times \text{cm}$	10^{12}

= perpendicular to the lamination II = parallel to the lamination

¹⁾ Mechanical value depend on the average ring diameter

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