

Technical Data Sheet

Lignostone[®] L II/2-E3-SQ

Laminated Densified Wood

Typical characteristics

- Standard quality red beech veneer; crosswise stacked
- High mechanical strength at low density
- Laminated densified wood C2R 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 [⊥]	IEC 61061	MPa	110
Modulus of elasticity in flexion [⊥]	IEC 61061	MPa	9000
Compressive strength [⊥]	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 [⊥]	IEC 61061	kV / mm	15
Electric strength 90°C under oil II	IEC 61061	kV/25mm	70
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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⊥ = perpendicular to the lamination || = parallel to the lamination

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Print: 02/05/2026 • Release: 20/09/2023 • Version: 1.0
PIM-ID: 710047 • PIM-Code: 817-37-9.10.8-5.11.7.6-13
Company-IDs: 20000-1

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