Technical Data Sheet

Lignostone® L II/2-E3-HQ (C1R)

Laminated Densified Wood

Typical characteristics

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

Typical industries

- Trasformatori
- Industria elettrica
- Isolanti elettrici
- Trasformatori in olio

	Test method	Unit	Guideline value
Mechanical properties			
Density	IEC 61061	g / cm^3	0.85
Flexural strength ⊥	IEC 61061	MPa	90
Modulus of elasticity in flexion ⊥	IEC 61061	MPa	8000
Compressive strength ⊥	ISO 604	MPa	180
Compressive strength II	ISO 604	MPa	60
Shear strength II	IEC 61061	MPa	8
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	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}

⊥= perpendicular to the lamination II = parallel to the lamination

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own

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