

Technical Data Sheet

Lignostone® M II-2-E3-SQ

Laminated Densified Wood

Typical characteristics

- High mechanical strength at medium density
- Laminated densified wood C4R according to the standard IEC 61061
- Standard quality red beech veneer; crosswise stacked

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	1.25
Flexural strength $\perp$	IEC 61061	MPa	130
Modulus of elasticity in flexion ¹⁾ $\perp$	IEC 61061	MPa	11
Compressive strength $\perp$	ISO 604	MPa	230
Compressive strength II	ISO 604	MPa	90
Shear strength II	IEC 61061	MPa	15
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	%	7
Moisture content	IEC 61061	%	5
Dielectrical properties			
Electric strength 90°C under oil $\perp$	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	4.1
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	0.01
Specific volume resistance	IEC 60093	$\Omega \times \text{cm}$	10^{12}

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

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