Technical Data Sheet

Lignostone® M I-2-E3-SQ

Laminated Densified Wood

Typical characteristics

- High mechanical strength at medium density
- Laminated densified wood P4R according to the standard IEC 61061
- Standard quality red beech veneer; parallel stacked

Typical industries

- 变压器
- 电气行业
- 电气绝缘元件
- 油浸式变压器

	Test method	Unit	Guideline value
Mechanical properties			
Density	IEC 61061	g / cm^3	1.25
Flexural strength [1) ⊥]	IEC 61061	MPa	200
Modulus of elasticity in flexion [1) ⊥]	IEC 61061	MPa	16000
Compressive strength [⊥]	ISO 604	MPa	120
Compressive strength II	ISO 604	MPa	90
Shear strength II	IEC 61061	MPa	11
Thermal properties			
Thermal conductivity	DIN 52612	W/m K	0.22
Operating temperature continuous	DIN 7707	°C	100
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 [⊥]	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 δ	0.01

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Print: 23/11/2026 • Release: 19/09/2025 • Version: 4.0
PIM-ID: 710060 • PIM-Code: 1097-46-13.8.8-5.11.7.6-21
Company-IDs: 20000-1

	Test method	Unit	Guideline value
Specific volume resistance	IEC 60093	Ω x cm	10^{12}

$\perp$ = perpendicular to the lamination
II = parallel to the lamination

[1)] Minimum 4 longitudinal layers in the tension zone

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