

Technical Data Sheet

Lignostone[®] M X/2-E3-HQ

Laminated Densified Wood

Typical characteristics

- High mechanical strength at medium density
- High red beech veneer quality; tangential stacked
- Laminated densified wood T4R according to the standard IEC 61061

Typical industries

- 油浸式变压器
- 电气绝缘元件
- Lignostone Transformerwood -适用于变压器的材料
- 电气行业

	Test method	Unit	Guideline value
Mechanical properties	1000 111001100	-	- Cardonilo Valdo
Density	ISO 1183	g / cm ³	1.25
•	IEC 61061	MPa	180
Flexural strength ¹ - Ring Ø >1000 mm ¹⁾			
Modulus of elasticity in flexion [⊥]	IEC 61061	MPa	13000
Compressive strength ¹	ISO 604	MPa	140
Compressive strength II RT	ISO 604	MPa	100
Shear strength II	IEC 61061	MPa	15
Thermal properties			
Thermal conductivity	DIN 52612	W/m K	0.22
Operating temperature		°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 ¹	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	4.1
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0.01

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	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

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 tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: www.roechling-industrial.com/gtc



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¹⁾ Sample size for flexural strength and modulus of elasticity in flexure is 120 x 15 x 10 mm (Mechanical value depends on the average ring diameter)