Technický datový list

Lignostone® M I-2-E3-HQ

Laminated Densified Wood

Vlastnosti produktu

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

Typické oblasti použití

- Transformátory
- Elektrotechnický průmysl
- Elektrické izolační konstrukční díly
- Olejové transformátory

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	IEC 61061	g / cm^3	1.25
Pevnost v ohybu [1] ⊥	IEC 61061	MPa	200
Modul pružnosti v ohybu [1] ⊥	IEC 61061	MPa	16000
Pevnost v tlaku ⊥	ISO 604	MPa	120
Pevnost v tlaku II	ISO 604	MPa	90
Smyková pevnost II	IEC 61061	MPa	11
Tepelné vlastnosti			
Tepelná vodivost	DIN 52612	W/m K	0.22
Dlouhodobá provozní teplota	DIN 7707	°C	100
Teplotní limit při sušení	DIN 7707	°C	130
Fyzikální vlastnosti			
Absorpce oleje	IEC 61061	%	7
Obsah vlhkosti	IEC 61061	%	5
Dielektrické vlastnosti			
Elektrická pevnost 90 °C v olejové lázni ⊥	IEC 61061	kV / mm	17
Elektrická pevnost 90 °C v olejové lázni II	IEC 61061	kV/25mm	80
Relativní permitivita (50 Hz)	IEC 60250	ε_r	4.1
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	tan δ	0.01

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 23/11/2026 • Vydáno: 19/09/2025 • Verze: 4.0
PIM-ID: 710064 • PIM-kód: 1094-46-13.13.8-5.11.7.6-21
Company-IDs: 20000-1

	Testovací metoda	Jednotka	Orientační hodnota
Měrný objemový odpor	IEC 60093	Ω x cm	10^{12}

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

[1] Minimum 4 longitudinal layers in the tension zone

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