Technický datový list

Lignostone® M I-2-E3-SQ

Laminated Densified Wood

Vlastnosti produktu

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

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	15
Elektrická pevnost 90 °C v olejové lázni II	IEC 61061	kV/25mm	70
Relativní permitivita (50 Hz)	IEC 60250	ε_r	4.1
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	tan δ	0.01

	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

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