Technický datový list

Lignostone® M X-2-E3-HQ

Laminated Densified Wood

Vlastnosti produktu

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

Typické oblasti použití

- Olejové transformátory
- Elektrické izolační konstrukční díly
- Elektrotechnický průmysl

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm^3	1.25
Pevnost v ohybu [1) ⊥]	ISO 178	MPa	180
Modul pružnosti v ohybu ⊥	ISO 178	GPa	13 000
Pevnost v tlaku ⊥	ISO 604	MPa	140
Pevnost v tlaku II RT	ISO 604	MPa	100
Smyková pevnost II	IEC 61061	MPa	15
Tepelné vlastnosti			
Tepelná vodivost	DIN 52612	W/m K	0.22
Provozní teplota		°C	105
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

	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] 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)

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