Technical Data Sheet

Lignostone® M I-2-E3-HQ

Kunstharzpressholz

Typical characteristics

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

Typical industries

- Transformateurs
- Industrie de l'équipement électrique
- Composants d'isolation électrique
- Transformateurs à huile

	Test method	Unit	Guideline value
Mechanical properties			
Densité	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	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

	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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