

Technical Data Sheet

Lignostone® M X-2-E3-HQ

Kunstharzpressholz

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

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

	Test method	Unit	Guideline value
Mechanical properties			
Densité	ISO 1183	g / cm ³	1.25
Flexural strength ¹⁾ ⊥	ISO 178	MPa	180
Modulus of elasticity in flexion ⊥	ISO 178	GPa	13 000
Compressive strength ⊥	ISO 604	MPa	140
Compressive strength RT	ISO 604	MPa	100
Shear strength	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 ⊥	IEC 61061	kV / mm	17
Electric strength 90°C under oil	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
Specific volume resistance	IEC 60093	Ω x cm	10 ¹²

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= 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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