

## **Technical Data Sheet**

## Lignostone<sup>®</sup> 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 <sup>3</sup>	1.25
Flexural strength 1) $\perp$	ISO 178	MPa	180
Modulus of elasticity in flexion <sup>1</sup>	ISO 178	GPa	13 000
Compressive strength <sup>1</sup>	ISO 604	MPa	140
Compressive strength II RT	ISO 604	MPa	100
Shear strength II	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 <sup>1</sup>	IEC 61061	kV / mm	17
Electric strength 90°C under oil II	IEC 61061	kV/25mm	80
Relative permittivity (50 Hz)	IEC 60250	ε,	4.1
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0.01
Specific volume resistance	IEC 60093	Ωxcm	10 <sup>12</sup>

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



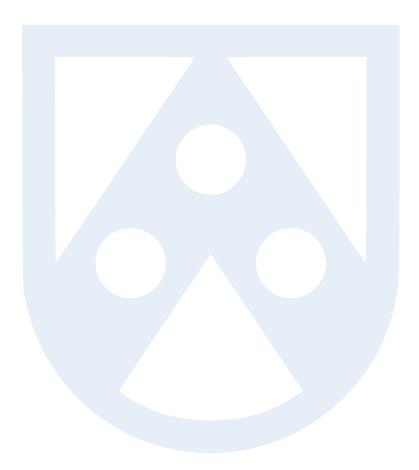




= perpendicular to the lamination II = parallel to the lamination

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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