Technical Data Sheet

Lignostone® M I-2-E3-SQ

Laminated Densified Wood

Typical characteristics

- Muy alta resistencia mecánica a densidad media.
- Madera laminada densificada P4R según norma IEC 61061
- Chapa de haya roja de calidad estándar; apilados en paralelo

Typical industries

- Transformadores
- Sector eléctrico
- Componentes de aislamiento eléctrico
- Transformadores de aceite

	Test method	Unit	Guideline value
Mechanical properties			
Density	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	15
Electric strength 90°C under oil II	IEC 61061	kV/25mm	70
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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$^{\perp}$ = perpendicular to the lamination
II = parallel to the lamination

[1] Minimum 4 longitudinal layers in the tension zone

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