テクニカルデータシート

Lignostone® M I-2-E3-SQ

Laminated Densified Wood

製品の特徴

- 中程度の密度で非常に高い機械的強度
- 積層圧縮木材
  (IEC61061規格P4R)
- 赤ブナを使用

製品の用途例

- 変圧器
- 電気
- 電気絶縁
- 油入変圧器

	試験法	単位	値
機械的物性			
密度	IEC 61061	g / cm^3	1.25
曲げ強度 [1] ⊥	IEC 61061	MPa	200
たわみ荷重弾性係数	IEC 61061	MPa	16000
圧縮強度⊥	ISO 604	MPa	120
圧縮強度II	ISO 604	MPa	90
せん断強度 II	IEC 61061	MPa	11
熱的物性			
熱伝導率	DIN 52612	W/m K	0.22
連続使用温度	DIN 7707	°C	100
乾燥時の上限温度	DIN 7707	°C	130
機械的特性			
吸油率	IEC 61061	%	7
含水率	IEC 61061	%	5
電気的特性			
油中耐電圧90°C⊥	IEC 61061	kV / mm	15
油中耐電圧90°CII	IEC 61061	kV/25mm	70
比誘電率 (50Hz)	IEC 60250	ε_r	4.1
誘電損率 (50 Hz)	IEC 60250	tan δ	0.01
体積固有抵抗	IEC 60093	Ω x cm	10^{12}

⊥ = perpendicular to the lamination
II = parallel to the lamination

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[1)] Minimum 4 longitudinal layers in the tension zone

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