テクニカルデータシート

Lignostone® M X-2-E3-HQ

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
- 高品質な赤ブナを使用
- 積層圧縮木材
  (IEC61061規格T4R)

製品の用途例

- 油入変圧器
- 電気絶縁
- 電気

	試験法	単位	値
機械的物性			
密度	ISO 1183	g / cm^3	1.25
曲げ強度 [1] ⊥	ISO 178	MPa	180
たわみ荷重弾性係数⊥	ISO 178	GPa	13 000
圧縮強度⊥	ISO 604	MPa	140
圧縮強度II RT	ISO 604	MPa	100
せん断強度 II	IEC 61061	MPa	15
熱的物性			
熱伝導率	DIN 52612	W/m K	0.22
使用温度		°C	105
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	17
油中耐電圧90°CII	IEC 61061	kV/25mm	80
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

[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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