

Technical Data Sheet

Lignostone[®] M II/2-E3-HQ

Laminated Densified Wood

Typical characteristics

- High red beech veneer quality; crosswise stacked
- High mechanical strength at medium density
- Laminated densified wood C4R according to the standard IEC 61061

Typical industries

- Transformer
- Electrical Industry
- Electrical Insulating Components
- Lignostone Transformerwood - for transformers
- Oil-filled transformers

| | Test method | Unit | Guideline value |
|---|-------------|---------------------|------------------|
| Mechanical properties | | | |
| Density | IEC 61061 | g / cm ³ | 1.25 |
| Flexural strength [⊥] | IEC 61061 | MPa | 130 |
| Modulus of elasticity in flexion [⊥] | IEC 61061 | MPa | 11 000 |
| Compressive strength [⊥] | ISO 604 | MPa | 230 |
| 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 | 17 |
| Electric strength 90°C under oil II | IEC 61061 | kV/25mm | 80 |
| Relative permittivity (50 Hz) | IEC 60250 | ε _r | 3.7 |
| 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

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