Röchling

Industrial

Technical Data Sheet

Durostone[®] UPR S19

GFK-UP

Typical characteristics

• High mechanical strength

• High dielectric strength

• Vinyl ester (VE) thermoset reinfored with e-glass fabric

Typical industries

- Transformer
- Oil-filled transformers
- Dry transformers
- Electrical Industry
- Electrical Insulating Components

| | Test method | Unit | Guideline value |
|---|-------------|---------------------|------------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 1,95 |
| Flexural strength [⊥] | ISO 178 | MPa | 470 |
| Modulus of elasticity in flexion $^{\perp}$ | ISO 178 | MPa | 25000 |
| Compressive strength $^{\perp}$ | ISO 604 | MPa | 450 |
| Compressive strength II | ISO 604 | MPa | 250 |
| Tensile strength II | ISO 527 | MPa | 400 |
| Impact strength II (Charpy) | ISO 179 | kJ / m² | 200 |
| Thermal properties | | | |
| Temperature index | IEC 60216 | T.I. | 155 |
| Insulation class | IEC 60085 | / | F |
| Physical properties | | | |
| Water absorption (4mm thickness) | ISO 62 | % | 0,1 |
| Dielectrical properties | | | |
| Electric strength 90°C under oil $^{\perp}$ | IEC 60243 | kV / mm | 15 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 75 |
| Relative permittivity (50 Hz) | IEC 60250 | ε _r | ≈ 5 |
| Specific surface resistance | IEC 60093 | Ω | 10 ¹⁰ |
| Comparative tracking index | IEC 60112 | CTI | 600 |
| | | | |

= perpendicular to the lamination II = parallel to the lamination

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical

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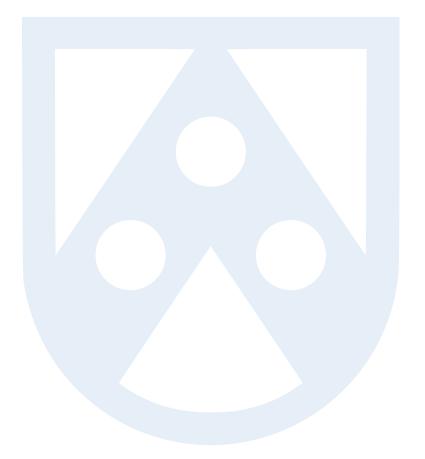
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