

Technical Data Sheet

Durostone® UPM 203

Typical characteristics

- Polyester (UP) resin matrix
- Reinforced with an e-glass roving mat
- UPGM 203 acc. to EN 60893

Typical industries

- Quadri elettrici
- Energie rinnovabili
- Industria elettrica
- Isolanti elettrici
- Generatori e motori

| | Test method | Unit | Guideline value |
|--|---------------|------------------------------------|---------------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g/cm ³ | 1,85 |
| Flexural strength $^{\perp}$ | ISO 178 | MPa | 130 |
| Modulus of elasticity in flexion $^{\perp}$ | ISO 178 | MPa | 9000 |
| Compressive strength $^{\perp}$ | ISO 604 | MPa | 250 |
| Tensile strength II | ISO 527 | MPa | 70 |
| Impact strength II (Charpy) | ISO 179 | kJ/m^2 | 40 |
| Thermal properties | | | |
| Flammability | UL 94 | / | V0 / 3mm |
| Coefficient of linear expansion II | TMA (Mettler) | 10 ⁻⁶ x K ⁻¹ | 15 - 30 |
| Temperature index | IEC 60216 | T.I. | 155 |
| Insulation class | IEC 60085 | / | F |
| Physical properties | | | |
| Water absorption (4mm thickness) | ISO 62 | % | 0,2 |
| Dielectrical properties | | | |
| Electric strength 90°C under oil ¹ | IEC 60243 | kV / mm | 12 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 75 |
| Relative permittivity (50 Hz) | IEC 60250 | ε _r | 4,5 |
| Comparative tracking index | IEC 60112 | СТІ | 600 |
| Insulation resistance after 24 h water immersion | IEC 60167 | | 5 x 10 ⁸ |

⁼ perpendicular to the lamination \mbox{II} = parallel to the lamination

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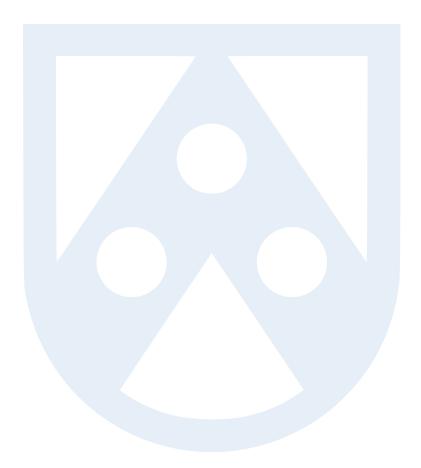
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