

Technical Data Sheet

Durostone[®] EPM 203

GFK-EP

Typical characteristics

- Epoxy (EP) resin matrix reinforced with an e-glass mat
- Good mechanical properties
- Good electrical properties

Typical industries

- Generatori e motori
- Energie rinnovabili
- Industria elettrica
- Energia eolica
- Isolanti elettrici
- Idrogeno
- Balistica

| | Test method | Unit | Guideline value |
|-------------------------------------------------|-------------|---------------------|------------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 1,85 |
| Flexural strength \perp | ISO 178 | MPa | 360 |
| Flexural strength \perp +150°C | ISO 178 | MPa | 180 |
| Modulus of elasticity in flexion \perp | ISO 178 | MPa | 20000 |
| Modulus of elasticity in flexion \perp +150°C | ISO 178 | MPa | 15000 |
| Compressive strength \perp | ISO 604 | MPa | 500 |
| Tensile strength II | ISO 527 | MPa | 280 |
| Impact strength II (Charpy) | ISO 179 | kJ / m ² | 100 |
| Thermal properties | | | |
| Temperature index | IEC 60216 | T.I. | 180 |
| Insulation class | IEC 60085 | / | H |
| Physical properties | | | |
| Water absorption (4mm thickness) | ISO 62 | % | 0,1 |
| Dielectrical properties | | | |
| Electric strength 90°C under oil \perp | IEC 60243 | kV / mm | 13 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 70 |
| Specific surface resistance | IEC 60093 | Ω | 10 ¹³ |
| Comparative tracking index | IEC 60112 | CTI | 400 |

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⊥ = perpendicular to the lamination || = parallel to the lamination

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