

Technical Data Sheet

Durostone[®] EPF S3

GFK-EP

Typical characteristics

- EPGC 202 (IEC 60893)
- FR-4 (NEMA)

Typical industries

- Generator and Motor
- Oil-filled transformers
- Dry transformers
- Electrical Industry
- Electrical Insulating Components

| | Test method | Unit | Guideline value |
|--|-------------|---------------------|----------------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 1,90 |
| Flexural strength [⊥] | ISO 178 | MPa | 540 |
| Modulus of elasticity in flexion [⊥] | ISO 178 | MPa | 24000 |
| Compressive strength [⊥] | ISO 604 | MPa | 580 |
| Tensile strength II | ISO 527 | MPa | 440 |
| Impact strength II (Charpy) | ISO 179 | kJ / m ² | 90 |
| Thermal properties | | | |
| Flammability | UL 94 | / | V0 |
| Temperature index | IEC 60216 | T.I. | 130 |
| Insulation class | IEC 60085 | / | B |
| Physical properties | | | |
| Water absorption | ISO 62 | % | < 0,1 |
| Dielectrical properties | | | |
| Electric strength 90°C under oil [⊥] | IEC 60243 | kV / mm | 16 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 60 |
| Comparative tracking index | IEC 60112 | CTI | 180 |
| Insulation resistance after 24 h water immersion | IEC 60167 | Ω | 5 x 10 ¹² |
| Relative permittivity (50 Hz/ 1 MHz) | IEC 60250 | ε _r | 5 |
| Dielectric loss factor (50 Hz/ 1MHz) | IEC 60250 | tan δ | 0,01 |

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

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