

Technical Data Sheet

Durostone[®] EPC 205

GFK-EP

Typical characteristics

- Laminado de alta presión
- Extremadamente alta resistencia mecánica y dieléctrica y baja inflamabilidad.
- Alta resistencia mecánica
- Retardante de llama
- Matriz de resina epoxi (EP) especial reforzada con un tejido de fibra de vidrio electrónico

Typical industries

- Generadores y motores
- Sector eléctrico
- Componentes de aislamiento eléctrico
- Healthcare
- Transmisión de corriente continua de alta tensión (HVDC)
- Hidrógeno
- Semiconductor High and low temperature

| | Test method | Unit | Guideline value |
|--|-------------|---------------------|-----------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 2,05 |
| Flexural strength [⊥] | ISO 178 | MPa | 600 |
| Flexural strength [⊥] +150°C | ISO 178 | MPa | 500 |
| Modulus of elasticity in flexion [⊥] | ISO 178 | MPa | 30000 |
| Modulus of elasticity in flexion [⊥] +150°C | ISO 178 | MPa | 26000 |
| Compressive strength [⊥] | ISO 604 | MPa | 600 |
| Compressive strength II | ISO 604 | MPa | 450 |
| Tensile strength II | ISO 527 | MPa | 450 |
| Impact strength II (Charpy) | ISO 179 | kJ / m ² | 250 |
| Thermal properties | | | |
| Flammability | UL 94 | / | V0 / 3mm |
| Temperature index | IEC 60216 | T.I. | 180 |
| Insulation class | IEC 60085 | / | H |
| Physical properties | | | |
| Water absorption (method I) | ISO 62 | % | < 0,2 |

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| | Test method | Unit | Guideline value |
|--|-------------|---------------------------|-----------------|
| Dielectrical properties | | | |
| Electric strength 90°C under oil [⊥] | IEC 60243 | kV / mm | 13 |
| Electric strength 90°C under oil | IEC 60243 | kV/25mm | 70 |
| Relative permittivity (50 Hz) | IEC 60250 | ϵ_r | 5 |
| Dielectric loss factor (50 Hz) | IEC 60250 | $\tan \delta$ | 0,04 |
| Specific surface resistance | IEC 60093 | Ω | 10^{12} |
| Specific volume resistance | IEC 60093 | $\Omega \times \text{cm}$ | 10^{14} |
| Comparative tracking index (test solution A) | IEC 60112 | CTI | 600 |
| Insulation resistance after 24 h water immersion | IEC 60167 | Ω | 10^{10} |

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

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