

Technical Data Sheet

Durostone[®] EPM S7

GFK-EP

Typical characteristics

- Matriz de resina epoxi (EP) reforzada con una estera de vidrio electrónico
- Buenas propiedades mecánicas
- Buenas propiedades eléctricas

Typical industries

- Generadores y motores
- Transmisión de corriente continua de alta tensión (HVDC)
- Sector de la construcción
- Equipos de superficie
- Sector eléctrico

| | Test method | Unit | Guideline value |
|---|---------------|------------------------------------|------------------|
| Mechanical properties | | | |
| Density | ISO 1183 | g / cm ³ | 1,85 |
| Flexural strength [⊥] | ISO 178 | MPa | 360 |
| Modulus of elasticity in flexion [⊥] | ISO 178 | MPa | 20000 |
| Compressive strength [⊥] | ISO 604 | MPa | 500 |
| Tensile strength II | ISO 527 | MPa | 280 |
| Impact strength II (Charpy) | ISO 179 | kJ / m ² | 100 |
| Thermal properties | | | |
| Coefficient of linear expansion II | TMA (Mettler) | 10 ⁻⁶ x K ⁻¹ | 10 - 20 |
| Temperature index | IEC 60216 | T.I. | 180 |
| Insulation class | IEC 60085 | / | H |
| Physical properties | | | |
| Water absorption (4mm thickness) | ISO 62 | % | 0,2 |
| Dielectrical properties | | | |
| Electric strength 90°C under oil [⊥] | IEC 60243 | kV / mm | 13 |
| Electric strength 90°C under oil II | IEC 60243 | kV/25mm | 70 |
| Relative permittivity (50 Hz) | IEC 60250 | ε _r | 5 |
| Specific surface resistance | IEC 60093 | Ω | 10 ¹³ |
| Specific volume resistance | IEC 60093 | Ω x cm | 10 ¹⁴ |

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| | Test method | Unit | Guideline value |
|----------------------------|-------------|------|-----------------|
| Comparative tracking index | EN 60112 | CTI | 400 |

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

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