

テクニカルデータシート

Durostone[®] EPM 204

GFK-EP

製品の特徴

- Eガラス製のローピングで補強された特殊エポキシ樹脂
- 耐火性
- 良好な機械加工性

製品の用途例

- ソーラエネルギー
- 再生エネルギー
- 電気絶縁
- 電気

| | 試験法 | 単位 | 値 |
|--------------------------------------|------------|------------------------------------|-------|
| 機械的物性 | | | |
| 曲げ強度 [⊥] | ISO 178 | MPa | 360 |
| 曲げ強度 [⊥] +150°C | ISO 178 | MPa | 200 |
| たわみ荷重弾性係数 [⊥] | ISO 178 | MPa | 18000 |
| たわみ荷重弾性係数 [⊥] +150°C | ISO 178 | MPa | 12000 |
| 圧縮強度 [⊥] | ISO 604 | MPa | 450 |
| 圧縮強度II | ISO 604 | MPa | 300 |
| 引張強度II | ISO 527 | MPa | 280 |
| 衝撃強度(シャルピー衝撃試験)II | ISO 179 | kJ / m ² | 120 |
| せん断強度 [⊥] | IEC 60893 | MPa | 150 |
| せん断強度 II | IEC 60893 | MPa | 25 |
| 熱的物性 | | | |
| 温度指数 | IEC 60216 | T.I. | 180 |
| 線膨張係数 [⊥] | NF T 51221 | 10 ⁻⁶ x K ⁻¹ | 13 |
| 線膨張係数 II | NF T 51221 | 10 ⁻⁶ x K ⁻¹ | 65 |
| Temperature of deflection under load | IEC 893-2 | °C | > 200 |
| 熱伝導率 | ISO 8302 | W/m K | 0,36 |
| Flame resistance properties | | | |
| 燃焼性 | NF P92-507 | - | M1 |
| 燃焼性 | UL94 | - | V0 |
| Smoke index | NF P 92501 | - | F1 |

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| | 試験法 | 単位 | 値 |
|------------------------|-----------|---------------------------|------------------|
| 機械的特性 | | | |
| 密度 | ISO 1183 | g / cm ³ | 1,9 |
| 吸水率 (10mm厚) | ISO 62 | % | 0,20 |
| 電気的特性 | | | |
| 油中耐電圧90°C [⊥] | IEC 60243 | kV / mm | 12 |
| 油中耐電圧90°CII | IEC 60243 | kV/25mm | 60 |
| 比誘電率 (50Hz) | IEC 60250 | ϵ_r | 5 |
| 誘電損率 (50 Hz) | IEC 60250 | tan δ | 0,05 |
| 表面固有抵抗 | IEC 60093 | Ω | 10 ¹² |
| 体積固有抵抗 | IEC 60093 | $\Omega \times \text{cm}$ | 10 ¹³ |
| 比較トラッキング指数 | IEC 60112 | CTI | 400 |

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

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