

テクニカルデータシート

Durostone® EPM 204

GFK-EP

製品の特徴

- Eガラス製のロービ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 | $\tan \delta$ | 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

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: www.roechling-industrial.com/gtc

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