

テクニカルデータシート

Durostone® EPX -M

GFK-EP

製品の特徴

- 高い機械的強度
- 極めて高い機械的強度および絶縁耐力
- フィラメントワインディング成形

製品の用途例

- 発電機およびモーター
- ヘルスケア
- 電気
- 機械工学
- 油入変圧器
- 水素エネルギー

	試験法	単位	値
機械的物性			
密度	ISO 1183	g / cm ³	2,1
曲げ強度 [⊥]	ISO 178	MPa	700
曲げ強度 [⊥] +150°C	ISO 178	MPa	350
たわみ荷重弾性係数 [⊥]	ISO 178	MPa	35000
Compressive strength (tangential)	ISO 604	MPa	500
Compressive strength (axial)	ISO 604	MPa	110
Compressive strength (radial)	ISO 604	MPa	110
引張強度II	ISO 527	MPa	800
Impact strength (radial)	ISO 179	kJ / m ²	250
熱的物性			
熱伝導率 [⊥]		W / (m * K)	≈ 0,35
温度指数	IEC 60216	T.I.	180
絶縁階級	IEC 60085	/	H
TG-Value	DSC	°C	150
Coefficient of linear expansion (tangential)	TMA	10 ⁻⁶ x K ⁻¹	5 - 10
coefficient of linear expansion (axial)	TMA	10 ⁻⁶ x K ⁻¹	20 - 30
coefficient of linear expansion (radial)	TMA	10 ⁻⁶ x K ⁻¹	25 - 40
電気的特性			
油中耐電圧90°C [⊥]	IEC 60243	kV / mm	5

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	試験法	単位	値
油中耐電圧90°CII	IEC 60243	kV/25mm	35
比誘電率 (50Hz)	IEC 60250	ϵ_r	≈ 5
誘電損率 (50 Hz)	IEC 60250	$\tan \delta$	$\approx 0,03$
24時間浸水後の絶縁抵抗	IEC 60167	Ω	5×10^9
比較トラッキング指数	EN 60112	CTI	225

\perp = 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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