

テクニカルデータシート

Durostone[®] UPM S1

GFK-UP

製品の特徴

- SMC高圧積層板
- 特殊ポリエステル樹脂をEガラス製のローコストで補強
- 高い機械的強度
- 極めて高い機械的強度および絶縁耐力
- 耐火性

製品の用途例

- 開閉装置
- 電気
- 電気絶縁
- 発電機およびモーター
- 半導体-CMP

	試験法	単位	値
機械的物性			
密度	ISO 1183	g / cm ³	2,0
曲げ強度 [⊥]	ISO 178	MPa	200
たわみ荷重弾性係数 [⊥]	ISO 178	MPa	15000
圧縮強度 [⊥]	ISO 604	MPa	350
圧縮強度II	ISO 604	MPa	180
引張強度II	ISO 527	MPa	120
衝撃強度(シャルピー衝撃試験)II	ISO 179	kJ / m ²	100
Delamination force II	DIN 53463	N	2600
熱的物性			
燃焼性	UL 94	/	V0 / 3mm
煙濃度および毒性	NF F 16-101	/	F0
燃焼試験	NF P 92-501	/	M1
線膨張係数 [⊥]	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	40 - 60
線膨張係数 II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	10 - 20
温度指数	IEC 60216	T.I.	155
絶縁階級	IEC 60085	/	F
機械的特性			
吸水率 (4mm厚)	ISO 62	%	0,2
電気的特性			

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	試験法	単位	値
油中耐電圧90°C [⊥]	IEC 60243	kV / mm	13
油中耐電圧90°CII	IEC 60243	kV/25mm	75
比誘電率 (50Hz)	IEC 60250	ϵ_r	≈ 4,5
誘電損率 (50 Hz)	IEC 60250	$\tan \delta$	≈ 0,01
表面固有抵抗	IEC 60093	Ω	10^{13}
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	600 M

[⊥] = 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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