

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	$\tan \delta$	≈ 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	400

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

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Page 2 / 2 (Dates in DD/MM/YYYY)

