

Technický datový list

Durostone[®] EPM 204

GFK-EP

Vlastnosti produktu

- Special epoxy (EP) resin matrix reinforced with an e-glass roving mat
- Flame retardant
- Good machinability

Typické oblasti použití

- Ropa a plyn
- Solární energie
- Obnovitelné energie
- Elektrické izolační konstrukční díly
- Elektrotechnický průmysl

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Pevnost v ohybu \perp	ISO 178	MPa	360
Pevnost v ohybu \perp +150 °C	ISO 178	MPa	200
Modul pružnosti v ohybu \perp	ISO 178	MPa	18000
Modul pružnosti v ohybu \perp +150 °C	ISO 178	MPa	12000
Pevnost v tlaku \perp	ISO 604	MPa	450
Pevnost v tlaku II	ISO 604	MPa	300
Pevnost v tahu II	ISO 527	MPa	280
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	120
Smyková pevnost \perp	IEC 60893	MPa	150
Smyková pevnost II	IEC 60893	MPa	25
Tepelné vlastnosti			
Teplotní index	IEC 60216	T.I.	180
Součinitel lineární roztažnosti \perp	NF T 51221	10 ⁻⁶ x K ⁻¹	13
Součinitel lineární roztažnosti II	NF T 51221	10 ⁻⁶ x K ⁻¹	65
Teplota průhybu při zatížení	IEC 893-2	°C	> 200
Tepelná vodivost	ISO 8302	W/m K	0,36
Vlastnosti nehořlavosti			
Hořlavost	NF P92-507	-	M1
Hořlavost	UL94		V0

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Index kouřivosti	NF P 92501	-	F1
Fyzikální vlastnosti			
Hustota	ISO 1183	g / cm ³	1,9
Absorpce vody (10 mm tloušťka)	ISO 62	%	0,20
Dielektrické vlastnosti			
Elektrická pevnost 90 °C v olejové lázni [⊥]	IEC 60243	kV / mm	12
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	60
Relativní permitivita (50 Hz)	IEC 60250	ϵ_r	5
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	tan δ	0,05
Měrný povrchový odpor	IEC 60093	Ω	10 ¹²
Měrný objemový odpor	IEC 60093	$\Omega \times \text{cm}$	10 ¹³
Srovnávací sledovací index	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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