

Technický datový list

Durostone[®] EPC 205

GFK-EP

Vlastnosti produktu

- High-pressure laminate
- High dielectric strength
- High mechanical strength
- Flame retardant
- Special epoxy (EP) resin matrix reinforced with an e-glass roving fabric

Typické oblasti použití

- Generátory a motory
- Elektrotechnický průmysl
- Elektrické izolační konstrukční díly
- Zdravotní péče
- Vysokonapěťový přenos stejnosměrného proudu
- Hydrogen Energy
- Semiconductor High and low temperature

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	2,05
Pevnost v ohybu \perp	ISO 178	MPa	600
Pevnost v ohybu \perp +150 °C	ISO 178	MPa	500
Modul pružnosti v ohybu \perp	ISO 178	MPa	30000
Modul pružnosti v ohybu \perp +150 °C	ISO 178	MPa	26000
Pevnost v tlaku \perp	ISO 604	MPa	600
Pevnost v tlaku II	ISO 604	MPa	450
Pevnost v tahu II	ISO 527	MPa	450
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	250
Teplné vlastnosti			
Hořlavost	UL 94	/	V0 / 3mm
Teplotní index	IEC 60216	T.I.	180
Izolační třída	IEC 60085	/	H
Fyzikální vlastnosti			
Absorpce vody (metoda 1)	ISO 62	%	< 0,2
Dielektrické vlastnosti			

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	Testovací metoda	Jednotka	Orientační hodnota
Elektrická pevnost 90 °C v olejové lázni [⊥]	IEC 60243	kV / mm	13
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	70
Relativní permitivita (50 Hz)	IEC 60250	ϵ_r	5
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	$\tan \delta$	0,04
Měrný povrchový odpor	IEC 60093	Ω	10^{12}
Měrný objemový odpor	IEC 60093	$\Omega \times \text{cm}$	10^{14}
Srovnávací index sledování (testovací roztok A)	IEC 60112	CTI	600
Izolační odolnost po 24 h ponoření do vody	IEC 60167	Ω	10^{10}

[⊥] = 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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