Technical Data Sheet

Durostone® EPC 205

Typical characteristics

- High-pressure laminate
- Extremely high mechanical & dielectric strength and low flammability
- Special epoxy (EP) resin matrix reinforced with an e-glass roving fabric

Typical industries

- Generátory a motory
- Elektrotechnický pr□mysl
- Elektrické izola□ní konstruk□ní díly
- Healthcare
- Vysokonap□□ový p□enos stejnosm□rného proudu
- Hydrogen Energy

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	2,05
Flexural strength ⊥	ISO 178	MPa	600
Flexural strength ⊥ +150°C	ISO 178	MPa	500
Modulus of elasticity in flexion ⊥	ISO 178	MPa	30000
Modulus of elasticity in flexion ⊥ +150°C	ISO 178	MPa	26000
Compressive strength ⊥	ISO 604	MPa	600
Compressive strength II	ISO 604	MPa	450
Tensile strength II	ISO 527	MPa	450
Impact strength II (Charpy)	ISO 179	kJ / m^2	300
Thermal properties			
Flammability	UL 94	/	V0 / 3mm
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	/	H
Physical properties			
Water absorption (method 1)	ISO 62	%	< 0,2
Dielectrical properties			
Electric strength 90°C under oil ⊥	IEC 60243	kV / mm	13
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70

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	Test method	Unit	Guideline value
Relative permittivity (50 Hz)	IEC 60250	ε_r	5
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0,04
Specific surface resistance	IEC 60093	Ohm	10^{12}
Specific volume resistance	IEC 60093	Ω x cm	10^{14}
Comparative tracking index (test solution A)	IEC 60112	CTI	600
Insulation resistance after 24 h water immersion	IEC 60167	Ohm	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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