

Technical Data Sheet

Durostone[®] EPM 204

GFK-EP

Typical characteristics

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

Typical industries

- 石油和天然气
- 太阳能
- 可再生能源
- 电气绝缘元件
- 电气行业

	Test method	Unit	Guideline value
Mechanical properties			
Flexural strength \perp	ISO 178	MPa	360
Flexural strength \perp +150°C	ISO 178	MPa	200
Modulus of elasticity in flexion \perp	ISO 178	MPa	18000
Modulus of elasticity in flexion \perp +150°C	ISO 178	MPa	12000
Compressive strength \perp	ISO 604	MPa	450
Compressive strength II	ISO 604	MPa	300
Tensile strength II	ISO 527	MPa	280
Impact strength II (Charpy)	ISO 179	kJ / m ²	120
Shear strength \perp	IEC 60893	MPa	150
Shear strength II	IEC 60893	MPa	25
Thermal properties			
Temperature index	IEC 60216	T.I.	180
Coefficient of linear expansion \perp	NF T 51221	10 ⁻⁶ x K ⁻¹	13
Coefficient of linear expansion II	NF T 51221	10 ⁻⁶ x K ⁻¹	65
Temperature of deflection under load	IEC 893-2	°C	> 200
Thermal conductivity	ISO 8302	W/m K	0,36
Flame resistance properties			
Flammability	NF P92-507	-	M1
Flammability	UL94	-	V0
Smoke index	NF P 92501	-	F1

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	Test method	Unit	Guideline value
Physical properties			
Density	ISO 1183	g / cm ³	1,9
Water absorption (10mm thickness)	ISO 62	%	0,20
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	12
Electric strength 90°C under oil II	IEC 60243	kV/25mm	60
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	5
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	0,05
Specific surface resistance	IEC 60093	Ω	10 ¹²
Specific volume resistance	IEC 60093	$\Omega \times \text{cm}$	10 ¹³
Comparative tracking 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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