Technical Data Sheet

Durostone® EPC 204

GFK-EP

Typical characteristics

- Flame retardant
- Epoxy (EP) resin matrix reinforced with an e-glass fabric

Typical industries

- Switchgear
- Electrical Industry
- Electrical Insulating Components

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	2,0
Flexural strength ⊥	ISO 178	MPa	500
Flexural strength ⊥ +150°C	ISO 178	MPa	350
Modulus of elasticity in flexion ⊥	ISO 178	MPa	25000
Modulus of elasticity in flexion ⊥ +150°C	ISO 178	MPa	21000
Compressive strength ⊥	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	350
Impact strength II (Charpy)	ISO 179	kJ / m^2	120
Shear strength II	IEC 60893	MPa	35
Thermal properties			
Flammability	UL 94	/	V0 / 2mm
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1
Dielectrical properties			
Electric strength 90°C under oil ⊥	IEC 60243	kV / mm	15
Electric strength 90°C under oil II	IEC 60243	kV/25mm	100
Insulation resistance	IEC 60167	Ω	10^{12}
Comparative tracking index	IEC 60112	CTI	600
Insulation resistance after 24 h water immersion	IEC 60167	Ω	10^{10}

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 20/04/2026 • Release: 20/09/2023
PIM-Version: 1070 • PIM-ID: 716633 • PIM-Code: 1070-39-16.8-7.11.7-13
Company-IDs: 20000-1

⊥ = 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