

Technical Data Sheet

Durostone® Tubes EP GC 22

GFK-EP

Typical characteristics

- Good mechanical properties
- Good electrical properties
- Epoxy (EP) resin matrix reinforced with an e-glass fine fabric
- EN 61212 compliant (EPGC 22)

Typical industries

- Dry transformers
- Electrical Insulating Components
- Oil-filled transformers
- Pipelines

	Test method	Unit	Guideline value
Mechanical properties			
Flexural strength $\perp$	ISO 178	MPa	320
Compressive strength (axial)	ISO 604	MPa	175
Thermal properties			
Temperature index	IEC 60216	T.I.	155°C
Insulation class	IEC 60085	/	F
Physical properties			
Density	ISO 1183	g / cm ³	1.7 - 1.8
Water absorption (3 mm thickness)	ISO 62	mg	0.8
Dielectrical properties			
Electric strength 90°C under oil $\perp$	IEC 60243	kV / mm	10
Electric strength 90°C under oil II	IEC 60243	kV/25mm	40
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	5.2
Insulation resistance after 24 h water immersion	IEC 60167	Ω	10 ⁹
Dissipation factor (50 Hz)	IEC 60250	$\tan \delta$	0.04

$\perp$ = 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.

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Print: 14/10/2026 • Release: 23/09/2026 • Version: 2.0

PIM-ID: 715238 • PIM-Code: 59-19-17.10.14.15-6.7.6.5-15

Company-IDs: 20000-1

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