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 ⊥	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 ⊥	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 δ	0.04

⊥ = perpendicular to the lamination

II = parallel to the lamination

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