

Technical Data Sheet

Durostone[®] EPC 308

GFK-EP

Typical characteristics

- Good mechanical properties
- Good electrical properties
- Epoxy (EP) resin matrix reinforced with an e-glass fine fabric

Typical industries

- Generator and Motor
- Electrical Industry
- Electrical Insulating Components
- Oil and Gas

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength [⊥]	ISO 178	MPa	450
Flexural strength [⊥] +150°C	ISO 178	MPa	230
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	23000
Modulus of elasticity in flexion [⊥] +150°C	ISO 178	MPa	18000
Compressive strength [⊥]	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	400
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Thermal properties			
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	/	H
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	16
Electric strength 90°C under oil II	IEC 60243	kV/25mm	80
Specific surface resistance	IEC 60093	Ω	5 x 10 ¹⁰
Comparative tracking index	IEC 60112	CTI	180

[⊥] = 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

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