

Technical Data Sheet

Durostone[®] EPC 203

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

	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	350
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Thermal properties			
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	16
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70
Insulation resistance	IEC 60167	Ω	10 ¹⁴
Specific surface resistance	IEC 60093	Ω	5 x 10 ¹⁰
Comparative tracking index	IEC 60112	CTI	180

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	Test method	Unit	Guideline value
Insulation resistance after 24 h water immersion	IEC 60167	Ω	10^{12}

⊥ = perpendicular to the lamination || = parallel to the lamination

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