

Technical Data Sheet

Durostone® EPR S1

GFK-EP

Typical characteristics

- High mechanical strength
- High dielectric strength

Typical industries

- 发电机和电机
- 高压直流输电
- 建筑行业
- 地上部分
- 电气行业

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,9
Flexural strength [⊥]	ISO 178	MPa	500
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	20000
Compressive strength [⊥]	ISO 604	MPa	300
Tensile strength II	ISO 527	MPa	400
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Delamination force II	DIN 53463	N	4000
Thermal properties			
Thermal conductivity [⊥]		W / (m * K)	0,3
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	10 - 20
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	1	H
Dielectrical properties			
Electric strength 90°C under oil ¹	IEC 60243	kV / mm	13
Relative permittivity (50 Hz)	IEC 60250	ε _r	≈ 5
Specific surface resistance	IEC 60093	Ω	10 ¹³
Specific volume resistance	IEC 60093	Ω x cm	10 ¹⁴
Comparative tracking index	IEC 60112	СТІ	225

 $^{^{\}perp}$ = perpendicular to the lamination II = parallel to the lamination

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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

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