

## Technical Data Sheet

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

<sup>⊥</sup> = 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

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