

### Technical Data Sheet

## Durostone<sup>®</sup> EPR S1

GFK-EP

#### Typical characteristics

- High mechanical strength
- High dielectric strength

#### Typical industries

- Generator and Motor
- HVDC Transmission
- Building industry
- Topside
- Electrical Industry

	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

