

### Technical Data Sheet

## Durostone® EPM S7

GFK-EP

#### Typical characteristics

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

#### 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>	1,85
Flexural strength <sup>⊥</sup>	ISO 178	MPa	360
Modulus of elasticity in flexion <sup>⊥</sup>	ISO 178	MPa	20000
Compressive strength <sup>⊥</sup>	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	280
Impact strength II (Charpy)	ISO 179	kJ / m <sup>2</sup>	100
<b>Thermal properties</b>			
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>Physical properties</b>			
Water absorption (4mm thickness)	ISO 62	%	< 0,2
<b>Dielectrical properties</b>			
Electric strength 90°C under oil <sup>⊥</sup>	IEC 60243	kV / mm	13
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70
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	EN 60112	CTI	400

= perpendicular to the lamination II = parallel to the lamination

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Page 1 / 2 (Dates in DD/MM/YYYY)



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Page 2 / 2 (Dates in DD/MM/YYYY)

