

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
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength [⊥]	ISO 178	MPa	360
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	20000
Compressive strength [⊥]	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	280
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Thermal properties			
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	/	H
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	< 0,2
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	13
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70
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	EN 60112	CTI	400

[⊥] = perpendicular to the lamination II = parallel to the lamination

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