

Technical Data Sheet

Durostone[®] EPR S1

GFK-EP

Typical characteristics

- High mechanical strength
- High dielectric strength

Typical industries

- Generatori e motori
- Trasmissione di energia elettrica in corrente continua (HVDC)
- Edilizia
- Topside
- Industria elettrica

	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	/	H
Dielectrical properties			
Electric strength 90°C under oil [⊥]	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	CTI	225

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⊥ = perpendicular to the lamination || = parallel to the lamination

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

