

Technical Data Sheet

Durostone[®] EPR S1

GFK-EP

Typical characteristics

- High mechanical strength
- High dielectric strength

Typical industries

- Générateurs et moteurs
- Transmission de courant continu haute tension (CCHT)
- Industrie du bâtiment et des travaux publics
- Installations de surface
- Industrie de l'équipement électrique

	Test method	Unit	Guideline value
Mechanical properties			
Densité	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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Print: 14/06/2026 • Release: 20/09/2023

PIM-ID: 710054 • PIM-Code: 1107-20-23.19-4.4.10.7.11-13

Company-IDs: 20000-1

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

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