

Technical Data Sheet

Durostone[®] EPF S1

GFK-EP

Typical industries

- Generator and Motor
- Oil-filled transformers
- Dry transformers
- Electrical Industry
- Electrical Insulating Components

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength [⊥]	ISO 178	MPa	340
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	24000
Compressive strength [⊥]	ISO 604	MPa	350
Compressive strength II	ISO 604	MPa	180
Tensile strength II	ISO 527	MPa	300
Impact strength II (Charpy)	ISO 179	kJ / m ²	50
Shear strength II	IEC 60893	MPa	30
Thermal properties			
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	< 0,1
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	10
Electric strength 90°C under oil II	IEC 60243	kV/25mm	35
Relative permittivity (1 MHz)	IEC 60250	ε _r	5,5
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0,04
Comparative tracking index	IEC 60112	CTI	180

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	Test method	Unit	Guideline value
Insulation resistance after 24 h water immersion	IEC 60167	Ω	5×10^{10}

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

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