

Technical Data Sheet

Durostone® EPF S1

GFK-EP

Typical industries

- Generatori e motori
- Trasformatori in olio
- Trasformatori a secco
- Industria elettrica
- Isolanti elettrici

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength $\perp$	ISO 178	MPa	340
Modulus of elasticity in flexion $\perp$	ISO 178	MPa	24000
Compressive strength $\perp$	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 $\perp$	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	$\tan \delta$	0,04
Comparative tracking index	IEC 60112	CTI	180
Insulation resistance after 24 h water immersion	IEC 60167	Ω	5×10^{10}

$\perp$ = perpendicular to the lamination II = parallel to the lamination

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