

Technical Data Sheet

Durostone® EPF S3

GFK-EP

Typical characteristics

- EPGC 202 (IEC 60893)
- FR-4 (NEMA)

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	1,90
Flexural strength [⊥]	ISO 178	MPa	540
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	24000
Compressive strength [⊥]	ISO 604	MPa	580
Tensile strength II	ISO 527	MPa	440
Impact strength II (Charpy)	ISO 179	kJ / m ²	90
Thermal properties			
Flammability	UL 94	/	V0
Temperature index	IEC 60216	T.I.	130
Insulation class	IEC 60085	/	B
Physical properties			
Water absorption	ISO 62	%	< 0,1
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	16
Electric strength 90°C under oil II	IEC 60243	kV/25mm	60
Comparative tracking index	IEC 60112	CTI	180
Insulation resistance after 24 h water immersion	IEC 60167	Ω	5 x 10 ¹²
Relative permittivity (50 Hz/ 1 MHz)	IEC 60250	ε _r	5
Dielectric loss factor (50 Hz/ 1MHz)	IEC 60250	tan δ	0,01

= perpendicular to the lamination II = parallel to the lamination

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