

### Technical Data Sheet

## Durostone<sup>®</sup> 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
<b>Mechanical properties</b>			
Density	ISO 1183	g / cm <sup>3</sup>	1,90
Flexural strength <sup>⊥</sup>	ISO 178	MPa	540
Modulus of elasticity in flexion <sup>⊥</sup>	ISO 178	MPa	24000
Compressive strength <sup>⊥</sup>	ISO 604	MPa	580
Tensile strength II	ISO 527	MPa	440
Impact strength II (Charpy)	ISO 179	kJ / m <sup>2</sup>	90
<b>Thermal properties</b>			
Flammability	UL 94	/	V0
Temperature index	IEC 60216	T.I.	130
Insulation class	IEC 60085	/	B
<b>Physical properties</b>			
Water absorption	ISO 62	%	0,1
<b>Dielectrical properties</b>			
Electric strength 90°C under oil <sup>⊥</sup>	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 <sup>12</sup>
Relative permittivity (50 Hz/ 1 MHz)	IEC 60250	ε <sub>r</sub>	5
Dielectric loss factor (50 Hz/ 1MHz)	IEC 60250	tan δ	0,01

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)



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

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[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

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