

Technical Data Sheet

Durostone® EPM 203

GFK-EP

Typical characteristics

- Epoxy (EP) resin matrix reinforced with an e-glass mat
- Good mechanical properties
- Good electrical properties

Typical industries

- Generator and Motor
- Renewable Energies
- Electrical Industry
- Wind Energy
- Electrical Insulating Components
- Hydrogen Energy

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength \perp	ISO 178	MPa	360
Flexural strength \perp +150°C	ISO 178	MPa	180
Modulus of elasticity in flexion \perp	ISO 178	MPa	20000
Modulus of elasticity in flexion \perp +150°C	ISO 178	MPa	15000
Compressive strength \perp	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	280
Impact strength II (Charpy)	ISO 179	kJ / m ²	100
Thermal properties			
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	/	H
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1
Dielectrical properties			
Electric strength 90°C under oil \perp	IEC 60243	kV / mm	13
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70
Specific surface resistance	IEC 60093	Ω	10 ¹³
Comparative tracking index	IEC 60112	CTI	400

= perpendicular to the lamination II = parallel to the lamination

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Print: 09/07/2025 • Release: 20/09/2023 • Version: 1.0
 PIM-Version: 850 • PIM-ID: 710059 • PIM-Code: 850-20-11.17.10-4.6.11.10.7.11-13
 Company-IDs: 21020

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