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

- Générateurs et moteurs
- Énergies renouvelables
- Industrie de l'équipement électrique
- L'énergie éolienne
- Composants d'isolation électrique
- Hydrogène
- Balistique

	Test method	Unit	Guideline value
Mechanical properties			
Densité	ISO 1183	g / cm^3	1,85
Flexural strength ⊥	ISO 178	MPa	360
Flexural strength ⊥ +150°C	ISO 178	MPa	180
Modulus of elasticity in flexion ⊥	ISO 178	MPa	20000
Modulus of elasticity in flexion ⊥ +150°C	ISO 178	MPa	15000
Compressive strength ⊥	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 ⊥	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}

	Test method	Unit	Guideline value
Comparative tracking index	IEC 60112	CTI	400

⊥ = perpendicular to the lamination II = parallel to the lamination

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