

Technical Data Sheet

Durostone[®] UPM 203

GFK-UP

Typical characteristics

- Polyester (UP) resin matrix
- Reinforced with an e-glass roving mat
- UPGM 203 acc. to EN 60893

Typical industries

- Switchgear
- Renewable Energies
- Electrical Industry
- Electrical Insulating Components
- Generator and Motor

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	1,85
Flexural strength [⊥]	ISO 178	MPa	130
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	9000
Compressive strength [⊥]	ISO 604	MPa	250
Tensile strength II	ISO 527	MPa	70
Impact strength II (Charpy)	ISO 179	kJ / m ²	40
Thermal properties			
Flammability	UL 94	/	V0 / 3mm
Coefficient of linear expansion II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	15 - 30
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	12
Electric strength 90°C under oil II	IEC 60243	kV/25mm	75
Relative permittivity (50 Hz)	IEC 60250	ε _r	4,5
Comparative tracking index	IEC 60112	CTI	600
Insulation resistance after 24 h water immersion	IEC 60167	Ω	5 x 10 ⁸

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

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