

## **Technical Data Sheet**

# **Durostone® UPM 203**

### **Typical characteristics**

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

#### **Typical industries**

- Switchgear
- 재생 가능 에너지
- 전기 산업
- Electrical Insulating Components
- Generator and Motor

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

 $<sup>^{\</sup>perp}$  = perpendicular to the lamination II = parallel to the lamination

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