

# **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**

- Spínací zall ízení
- Obnovitelné energie
- Elektrotechnický pr

  mysl
- Elektrické izolal ní konstrukl ní
- Generátory a motory

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g/cm <sup>3</sup>	1,85
Flexural strength $^{\perp}$	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	/	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	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,2
Dielectrical properties			
Electric strength 90°C under oil <sup>1</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		5 x 10 <sup>8</sup>

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

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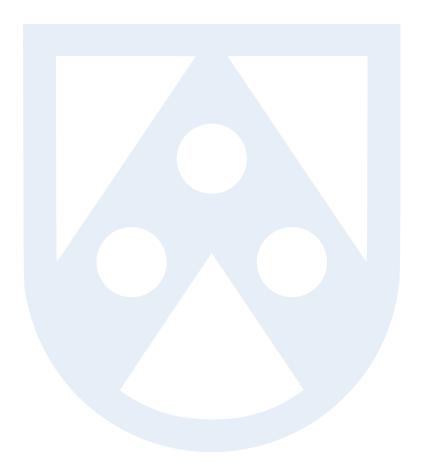
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