

## Technical Data Sheet

# Durostone<sup>®</sup> UPM S16

GFK-UP

### Typical characteristics

- High-pressure laminate
- Special polyester (UP) resin matrix reinforced with an e-glass roving mat
- High mechanical strength
- High dielectric strength
- Flame retardant

### Typical industries

- Switchgear

	Test method	Unit	Guideline value
<b>Mechanical properties</b>			
Density	ISO 1183	g / cm <sup>3</sup>	1,87
Flexural strength <sup>⊥</sup>	ISO 178	MPa	200
Modulus of elasticity in flexion <sup>⊥</sup>	ISO 178	MPa	13000
Compressive strength <sup>⊥</sup>	ISO 604	MPa	300
Compressive strength II	ISO 604	MPa	180
Tensile strength II	ISO 527	MPa	100
Impact strength II (Charpy)	ISO 179	kJ / m <sup>2</sup>	100
<b>Thermal properties</b>			
Flammability	UL 94	/	V0 / 3mm
<b>Physical properties</b>			
Water absorption (4mm thickness)	ISO 62	%	0,2
<b>Dielectrical properties</b>			
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
Specific surface resistance	IEC 60093	Ω	10 <sup>13</sup>
Comparative tracking index	IEC 60112	CTI	600

<sup>⊥</sup> = perpendicular to the lamination II = parallel to the lamination

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the

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