

Technical Data Sheet

Durostone[®] 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
Mechanical properties			
Density	ISO 1183	g / cm ³	1,87
Flexural strength [⊥]	ISO 178	MPa	200
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	13000
Compressive strength [⊥]	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 ²	100
Thermal properties			
Flammability	UL 94	/	V0 / 3mm
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
Specific surface resistance	IEC 60093	Ω	10 ¹³
Comparative tracking index	IEC 60112	CTI	600

