

Technical Data Sheet

Durostone[®] UPR S19

GFK-UP

Typical characteristics

- High mechanical strength
- High dielectric strength
- Vinyl ester (VE) thermoset reinforced with e-glass fabric

Typical industries

- Transformateurs
- Transformateurs à huile
- Transformateurs à air sec
- Industrie de l'équipement électrique
- Composants d'isolation électrique

	Test method	Unit	Guideline value
Mechanical properties			
Densité	ISO 1183	g / cm ³	1,95
Flexural strength [⊥]	ISO 178	MPa	470
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	25000
Compressive strength [⊥]	ISO 604	MPa	450
Compressive strength II	ISO 604	MPa	250
Tensile strength II	ISO 527	MPa	400
Impact strength II (Charpy)	ISO 179	kJ / m ²	200
Thermal properties			
Temperature index	IEC 60216	T.I.	155
Insulation class	IEC 60085	/	F
Physical properties			
Water absorption (4mm thickness)	ISO 62	%	0,1
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	15
Electric strength 90°C under oil II	IEC 60243	kV/25mm	75
Relative permittivity (50 Hz)	IEC 60250	ε _r	≈ 5
Specific surface resistance	IEC 60093	Ω	10 ¹⁰
Comparative tracking index	IEC 60112	CTI	600

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

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