Technical Data Sheet

Durostone® EPC 204

GFK-EP

Typical characteristics

- Flame retardant
- Epoxy (EP) resin matrix reinforced with an e-glass fabric

Typical industries

- Switchgear
- Electrical Industry
- Electrical Insulating Components

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm^3	2,0
Flexural strength ⊥	ISO 178	MPa	500
Flexural strength ⊥ +150°C	ISO 178	MPa	350
Modulus of elasticity in flexion ⊥	ISO 178	MPa	25000
Modulus of elasticity in flexion ⊥ +150°C	ISO 178	MPa	21000
Compressive strength ⊥	ISO 604	MPa	500
Tensile strength II	ISO 527	MPa	350
Impact strength II (Charpy)	ISO 179	kJ / m^2	120
Shear strength II	IEC 60893	MPa	35
Thermal properties			
Flammability	UL 94	/	V0 / 2mm
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	100
Insulation resistance	IEC 60167	Ω	10^{12}
Comparative tracking index	IEC 60112	CTI	600
Insulation resistance after 24 h water immersion	IEC 60167	Ω	10^{10}

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⊥= perpendicular to the lamination II = parallel to the lamination

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