

Technical Data Sheet

Durostone[®] EPC 205

GFK-EP

Typical characteristics

- High-pressure laminate
- High dielectric strength
- High mechanical strength
- Flame retardant
- Special epoxy (EP) resin matrix reinforced with an e-glass roving fabric

Typical industries

- Generator and Motor
- Electrical Industry
- Electrical Insulating Components
- Healthcare
- HVDC Transmission
- Hydrogen Energy
- Semiconductor High and low temperature

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	2,05
Flexural strength [⊥]	ISO 178	MPa	600
Flexural strength [⊥] +150°C	ISO 178	MPa	500
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	30000
Modulus of elasticity in flexion [⊥] +150°C	ISO 178	MPa	26000
Compressive strength [⊥]	ISO 604	MPa	600
Compressive strength II	ISO 604	MPa	450
Tensile strength II	ISO 527	MPa	450
Impact strength II (Charpy)	ISO 179	kJ / m ²	300
Thermal properties			
Flammability	UL 94	/	V0 / 3mm
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	/	H
Physical properties			
Water absorption (method 1)	ISO 62	%	0,2
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	13

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	Test method	Unit	Guideline value
Electric strength 90°C under oil II	IEC 60243	kV/25mm	70
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	5
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	0,04
Specific surface resistance	IEC 60093	Ω	10^{12}
Specific volume resistance	IEC 60093	$\Omega \times \text{cm}$	10^{14}
Comparative tracking index (test solution A)	IEC 60112	CTI	600
Insulation resistance after 24 h water immersion	IEC 60167	Ω	10^{10}

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

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