

Technical Data Sheet

Durostone[®] EPM 204

GFK-EP

Typical characteristics

- Special epoxy (EP) resin matrix reinforced with an e-glass roving mat
- Flame retardant
- Good machinability

Typical industries

- Oil and Gas
- Solar Energy
- Renewable Energies
- Electrical Insulating Components
- Electrical Industry

	Test method	Unit	Guideline value
Mechanical properties			
Flexural strength \perp	ISO 178	MPa	360
Flexural strength \perp +150°C	ISO 178	MPa	200
Modulus of elasticity in flexion \perp	ISO 178	MPa	18000
Modulus of elasticity in flexion \perp +150°C	ISO 178	MPa	12000
Compressive strength \perp	ISO 604	MPa	450
Compressive strength II	ISO 604	MPa	300
Tensile strength II	ISO 527	MPa	280
Impact strength II (Charpy)	ISO 179	kJ / m ²	120
Shear strength \perp	IEC 60893	MPa	150
Shear strength II	IEC 60893	MPa	25
Thermal properties			
Temperature index	IEC 60216	T.I.	180
Coefficient of linear expansion \perp	NFT 51221	10 ⁻⁶ x K ⁻¹	13
Coefficient of linear expansion II	NFT 51221	10 ⁻⁶ x K ⁻¹	65
Temperature of deflection under load	IEC 893-2	°C	> 200
Thermal conductivity	ISO 8302	W/m K	0,36
Flame resistance properties			
Flammability	NF P92-507	-	M1
Flammability	UL94		V0

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	Test method	Unit	Guideline value
Smoke index	NF P 92501	-	F1
Physical properties			
Density	ISO 1183	g / cm ³	1,9
Water absorption (10mm thickness)	ISO 62	%	0,20
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	12
Electric strength 90°C under oil	IEC 60243	kV/25mm	60
Relative permittivity (50 Hz)	IEC 60250	ε _r	5
Dielectric loss factor (50 Hz)	IEC 60250	tan δ	0,05
Specific surface resistance	IEC 60093	Ω	10 ¹²
Specific volume resistance	IEC 60093	Ω x cm	10 ¹³
Comparative tracking index	IEC 60112	CTI	400

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

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