

Technical Data Sheet

Durostone[®] EPX -M

GFK-EP

Typical characteristics

- Alta resistencia mecánica
- Extremadamente alta resistencia mecánica y dieléctrica y baja inflamabilidad.
- Fabricado con tecnología de bobinado de filamentos y consta de una matriz de resina epoxi especial (EP) reforzada con fibra de vidrio electrónico.

Typical industries

- Generadores y motores
- Healthcare
- Sector eléctrico
- Construcción de máquinas e instalaciones
- Transformadores de aceite
- Hidrógeno

	Test method	Unit	Guideline value
Mechanical properties			
Density	ISO 1183	g / cm ³	2.1
Flexural strength [⊥]	ISO 178	MPa	700
Flexural strength [⊥] +150°C	ISO 178	MPa	350
Modulus of elasticity in flexion [⊥]	ISO 178	MPa	35000
Compressive strength (tangential)	ISO 604	MPa	500
Compressive strength (axial)	ISO 604	MPa	110
Compressive strength (radial)	ISO 604	MPa	110
Tensile strength II	ISO 527	MPa	800
Impact strength (radial)	ISO 179	kJ / m ²	250
Thermal properties			
Thermal conductivity [⊥]		W / (m * K)	≈ 0.35
Temperature index	IEC 60216	T.I.	180
Insulation class	IEC 60085	/	H
TG-Value	DSC	°C	150
Coefficient of linear expansion (tangential)	TMA	10 ⁻⁶ x K ⁻¹	5 - 10
coefficient of linear expansion (axial)	TMA	10 ⁻⁶ x K ⁻¹	20 - 30

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	Test method	Unit	Guideline value
coefficient of linear expansion (radial)	TMA	$10^{-6} \times K^{-1}$	25 - 40
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	5
Electric strength 90°C under oil	IEC 60243	kV/25mm	35
Relative permittivity (50 Hz)	IEC 60250	ϵ_r	≈ 5
Dielectric loss factor (50 Hz)	IEC 60250	$\tan \delta$	≈ 0.03
Insulation resistance after 24 h water immersion	IEC 60167	Ω	5×10^9
Comparative tracking index	EN 60112	CTI	400

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

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