

Technický datový list

Durostone[®] EPC 203

GFK-EP

Vlastnosti produktu

- Good mechanical properties
- Good electrical properties
- Epoxy (EP) resin matrix reinforced with an e-glass fine fabric

Typické oblasti použití

- Generátory a motory
- Olejové transformátory
- Suché transformátory
- Elektrotechnický průmysl
- Elektrické izolační konstrukční díly

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	1,85
Pevnost v ohybu \perp	ISO 178	MPa	450
Pevnost v ohybu \perp +150 °C	ISO 178	MPa	230
Modul pružnosti v ohybu \perp	ISO 178	MPa	23000
Modul pružnosti v ohybu \perp +150 °C	ISO 178	MPa	18000
Pevnost v tlaku \perp	ISO 604	MPa	500
Pevnost v tahu II	ISO 527	MPa	350
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	100
Tepelné vlastnosti			
Teplotní index	IEC 60216	T.I.	155
Izolační třída	IEC 60085	/	F
Fyzikální vlastnosti			
Absorpce vody (4 mm tloušťka)	ISO 62	%	0,1
Dielektrické vlastnosti			
Elektrická pevnost 90 °C v olejové lázni \perp	IEC 60243	kV / mm	16
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	70
Izolační odpor	IEC 60167	Ω	10 ¹⁴
Měrný povrchový odpor	IEC 60093	Ω	5 x 10 ¹⁰
Srovnávací sledovací index	IEC 60112	CTI	180

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	Testovací metoda	Jednotka	Orientační hodnota
Izolační odolnost po 24 h ponoření do vody	IEC 60167	Ω	10^{12}

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

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Print: 02/05/2026 • Vydáno: 20/09/2023
 PIM-ID: 710087 • PIM-kód: 1112-19-17,10,14-4.6.6.11.7-13
 Company-IDs: 21020

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