

Technický datový list

Durostone[®] EPM S7

GFK-EP

Vlastnosti produktu

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

Typické oblasti použití

- Generátory a motory
- Vysokonapěťový přenos stejnosměrného proudu
- Stavební průmysl
- Topside
- Elektrotechnický průmysl

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	1,85
Pevnost v ohybu [⊥]	ISO 178	MPa	360
Modul pružnosti v ohybu [⊥]	ISO 178	MPa	20000
Pevnost v tlaku [⊥]	ISO 604	MPa	500
Pevnost v tahu II	ISO 527	MPa	280
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	100
Tepelné vlastnosti			
Součinitel lineární roztažnosti II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	10 - 20
Teplotní index	IEC 60216	T.I.	180
Izolační třída	IEC 60085	/	H
Fyzikální vlastnosti			
Absorpce vody (4 mm tloušťka)	ISO 62	%	< 0,2
Dielektrické vlastnosti			
Elektrická pevnost 90 °C v olejové lázni [⊥]	IEC 60243	kV / mm	13
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	70
Relativní permitivita (50 Hz)	IEC 60250	ε _r	5
Měrný povrchový odpor	IEC 60093	Ω	10 ¹³
Měrný objemový odpor	IEC 60093	Ω x cm	10 ¹⁴
Srovnávací sledovací index	EN 60112	CTI	400

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L = perpendicular to the lamination II = parallel to the lamination

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