

## Technický datový list

Durostone<sup>®</sup> EPR S1

GFK-EP

## Vlastnosti produktu

- High mechanical strength
- High dielectric strength

## Typické oblasti použití

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

	Testovací metoda	Jednotka	Orientační hodnota
<b>Mechanické vlastnosti</b>			
Hustota	ISO 1183	g / cm <sup>3</sup>	1,9
Pevnost v ohybu <sup>⊥</sup>	ISO 178	MPa	500
Modul pružnosti v ohybu <sup>⊥</sup>	ISO 178	MPa	20000
Pevnost v tlaku <sup>⊥</sup>	ISO 604	MPa	300
Pevnost v tahu II	ISO 527	MPa	400
Rázová houževnatost II (Charpy)	ISO 179	kJ / m <sup>2</sup>	100
Delaminační síla II	DIN 53463	N	4000
<b>Tepelné vlastnosti</b>			
Tepelná vodivost <sup>⊥</sup>		W / (m * K)	0,3
Součinitel lineární roztažnosti II	TMA (Mettler)	10 <sup>-6</sup> x K <sup>-1</sup>	10 - 20
Teplotní index	IEC 60216	T.I.	180
Izolační třída	IEC 60085	/	H
<b>Dielektrické vlastnosti</b>			
Elektrická pevnost 90 °C v olejové lázni <sup>⊥</sup>	IEC 60243	kV / mm	13
Relativní permitivita (50 Hz)	IEC 60250	ε <sub>r</sub>	≈ 5
Měrný povrchový odpor	IEC 60093	Ω	10 <sup>13</sup>
Měrný objemový odpor	IEC 60093	Ω x cm	10 <sup>14</sup>
Srovnávací sledovací index	IEC 60112	CTI	225

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

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