

Technický datový list

Durostone[®] EPM 204

GFK-EP

Vlastnosti produktu

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

Typické oblasti použití

- Ropa a plyn
- Solární energie
- Obnovitelné energie
- Elektrické izolační konstrukční díly
- Elektrotechnický průmysl

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Pevnost v ohybu \perp	ISO 178	MPa	360
Pevnost v ohybu \perp +150 °C	ISO 178	MPa	200
Modul pružnosti v ohybu \perp	ISO 178	MPa	18000
Modul pružnosti v ohybu \perp +150 °C	ISO 178	MPa	12000
Pevnost v tlaku \perp	ISO 604	MPa	450
Pevnost v tlaku II	ISO 604	MPa	300
Pevnost v tahu II	ISO 527	MPa	280
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	120
Smyková pevnost \perp	IEC 60893	MPa	150
Smyková pevnost II	IEC 60893	MPa	25
Tepelné vlastnosti			
Teplotní index	IEC 60216	T.I.	180
Součinitel lineární roztažnosti \perp	NF T 51221	10 ⁻⁶ x K ⁻¹	13
Součinitel lineární roztažnosti II	NF T 51221	10 ⁻⁶ x K ⁻¹	65
Teplota průhybu při zatížení	IEC 893-2	°C	> 200
Tepelná vodivost	ISO 8302	W/m K	0,36
Vlastnosti nehořlavosti			
Hořlavost	NF P92-507	-	M1
Hořlavost	UL94		V0

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	Testovací metoda	Jednotka	Orientační hodnota
Index kouřivosti	NF P 92501	-	F1
Fyzikální vlastnosti			
Hustota	ISO 1183	g / cm ³	1,9
Absorpce vody (10 mm tloušťka)	ISO 62	%	0,20
Dielektrické vlastnosti			
Elektrická pevnost 90 °C v olejové lázni [⊥]	IEC 60243	kV / mm	12
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	60
Relativní permitivita (50 Hz)	IEC 60250	ϵ_r	5
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	tan δ	0,05
Měrný povrchový odpor	IEC 60093	Ω	10 ¹²
Měrný objemový odpor	IEC 60093	$\Omega \times \text{cm}$	10 ¹³
Srovnávací sledovací index	IEC 60112	CTI	400

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

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