

Technický datový list

Durostone[®] UPM 203

GFK-UP

Vlastnosti produktu

- Polyester (UP) resin matrix
- Reinforced with an e-glass roving mat
- UPGM 203 acc. to EN 60893

Typické oblasti použití

- Spínací zařízení
- Obnovitelné energie
- Elektrotechnický průmysl
- Elektrické izolační konstrukční díly
- Generátory a motory

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	1,85
Pevnost v ohybu [⊥]	ISO 178	MPa	130
Modul pružnosti v ohybu [⊥]	ISO 178	MPa	9000
Pevnost v tlaku [⊥]	ISO 604	MPa	250
Pevnost v tahu II	ISO 527	MPa	70
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	40
Teplotné vlastnosti			
Hořlavost	UL 94	/	V0 / 3mm
Součinitel lineární roztažnosti II	TMA (Mettler)	10 ⁻⁶ x K ⁻¹	15 - 30
Teplotní index	IEC 60216	T.I.	155
Izolační třída	IEC 60085	/	F
Fyzikální vlastnosti			
Absorpce vody (4 mm tloušťka)	ISO 62	%	0,2
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	75
Relativní permitivita (50 Hz)	IEC 60250	ε _r	4,5
Srovnávací sledovací index	IEC 60112	CTI	600
Izolační odolnost po 24 h ponoření do vody	IEC 60167	Ω	5 x 10 ⁸

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

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