

Technický datový list

Durostone[®] EPX -M S7

GFK-EP

Vlastnosti produktu

- High mechanical strength
- High dielectric strength
- Manufactured by filament winding technology and consists of a special (EP) epoxy resin matrix reinforced with e-glass roving

Typické oblasti použití

- Generátory a motory
- Zdravotní péče
- Elektrotechnický průmysl
- Stavba strojů a zařízení
- Olejové transformátory

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	2,1
Pevnost v ohybu \perp	ISO 178	MPa	700
Pevnost v ohybu \perp +150 °C	ISO 178	MPa	350
Modul pružnosti v ohybu \perp	ISO 178	MPa	35000
Pevnost v tlaku (tangenciální)	ISO 604	MPa	500
Pevnost v tlaku (axiální)	ISO 604	MPa	110
Pevnost v tlaku (radiální)	ISO 604	MPa	110
Pevnost v tahu II	ISO 527	MPa	800
Rázová houževnatost (radiální)	ISO 179	kJ / m ²	250
Tepelné vlastnosti			
Tepelná vodivost \perp		W / (m * K)	≈ 0,35
Teplotní index	IEC 60216	T.I.	180
Izolační třída	IEC 60085	/	H
TG-hodnota	DSC	°C	150
Součinitel lineární roztažnosti (tangenciální)	TMA	10 ⁻⁶ x K ⁻¹	5 - 10
koeficient lineární roztažnosti (axiální)	TMA	10 ⁻⁶ x K ⁻¹	20 - 30
koeficient lineární roztažnosti (radiální)	TMA	10 ⁻⁶ x K ⁻¹	25 - 40
Dielektrické vlastnosti			

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	Testovací metoda	Jednotka	Orientační hodnota
Elektrická pevnost 90 °C v olejové lázni \perp	IEC 60243	kV / mm	5
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	35
Relativní permitivita (50 Hz)	IEC 60250	ϵ_r	≈ 5
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	$\tan \delta$	$\approx 0,03$
Izolační odolnost po 24 h ponoření do vody	IEC 60167	Ω	5×10^9
Srovnávací sledovací index	EN 60112	CTI	225

\perp = perpendicular to the lamination II = parallel to the lamination

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Print: 02/05/2026 • Vydáno: 01/07/2024 • Verze: 1.0
 PIM-ID: 751388 • PIM-kód: 17-28-23.19.12-4.27.11.5.6-13
 Company-IDs: 20000-1

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