

## Technický datový list

Durostone<sup>®</sup> EPX -M

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
- Hydrogen Energy

	Testovací metoda	Jednotka	Orientační hodnota
<b>Mechanické vlastnosti</b>			
Hustota	ISO 1183	g / cm <sup>3</sup>	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 <sup>2</sup>	250
<b>Tepelné vlastnosti</b>			
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 <sup>-6</sup> x K <sup>-1</sup>	5 - 10
koeficient lineární roztažnosti (axiální)	TMA	10 <sup>-6</sup> x K <sup>-1</sup>	20 - 30
koeficient lineární roztažnosti (radiální)	TMA	10 <sup>-6</sup> x K <sup>-1</sup>	25 - 40
<b>Dielektrické vlastnosti</b>			

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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	$\epsilon_r$	$\approx 5$
Dielektrický ztrátový činitel (50 Hz)	IEC 60250	$\tan \delta$	$\approx 0.03$
Izolační odolnost po 24 h ponoření do vody	IEC 60167	$\Omega$	$5 \times 10^9$
Srovnávací sledovací index	EN 60112	CTI	400

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

The data stated above are average values verified on the basis of regular statistical tests and controls. All information in this publication is based on current technical knowledge and experience. Due to the large number of possible influences during processing and application, it does not exempt the user/processor from carrying out their own tests and trials. Responsibility for the evaluation of the end product for the intended use and compliance with the applicable relevant legal requirements lies exclusively with the user/processor as well as the distributor of the respective product/end product. Suggested uses do not constitute an assurance of suitability for the recommended purpose. The information in this publication and our declarations in Connection with this publication do not constitute acceptance of a guaranteed or warranted characteristic. Guarantee declarations require our separate express written declaration in order to be effective. We reserve the right to adapt the product to technical progress and new developments. The products described in this publication are only sold to customers with the appropriate expertise and not to consumers. Please do not hesitate to contact us if you have any questions or if you experience any specific application problems. If the application for which our products are used is subject to an official approval requirement, the user/processor is responsible for obtaining these approvals. Our application recommendations do not exempt the user/processor from the obligation to examine and, if necessary, clarify the possibility of infringements of third-party rights. In all other respects, we refer to our General Terms and Conditions (GTC). These are available at: [www.roechling-industrial.com/gtc](http://www.roechling-industrial.com/gtc)

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Print: 09/05/2026 • Vydáno: 28/04/2026 • Verze: 1.0  
 PIM-ID: 715230 • PIM-kód: 54-28-23.19.12-4.27.11.5.6.11-13  
 Company-IDs: 20000-1

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