

Technický datový list

Durostone[®] UPM S13 LST

GFK-UP

Vlastnosti produktu

- SMC high-pressure laminate
- Special polyester (UP) resin matrix reinforced with an e-glass roving mat
- High mechanical strength
- High dielectric strength
- Flame retardant

Typické oblasti použití

- Železniční technika a kolejová vozidla

	Testovací metoda	Jednotka	Orientační hodnota
Mechanické vlastnosti			
Hustota	ISO 1183	g / cm ³	2,1
Pevnost v ohybu \perp	ISO 178	MPa	160
Modul pružnosti v ohybu \perp	ISO 178	MPa	12000
Pevnost v tlaku \perp	ISO 604	MPa	280
Pevnost v tlaku II	ISO 604	MPa	180
Pevnost v tahu II	ISO 527	MPa	80
Rázová houževnatost II (Charpy)	ISO 179	kJ / m ²	100
Smyková pevnost \perp	BS 2782/340B	MPa	85
Smyková pevnost II	BS 2782/340B	MPa	80
Delaminační síla II	DIN 53463	N	2000
Tepečné vlastnosti			
Hořlavost	UL 94	/	V0 / 1mm
Požadavek na hořlavost R1	DIN EN 45545-2		HL3
Požadavek na hořlavost R7	DIN EN 45545-2		HL3
Požadavek na hořlavost R17	DIN EN 45545-2		HL3
Fyzikální vlastnosti			
Absorpce vody (metoda 1)	ISO 62	%	0,1
Dielektrické vlastnosti			

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	Testovací metoda	Jednotka	Orientační hodnota
Elektrická pevnost 90 °C v olejové lázni [⊥]	IEC 60243	kV / mm	13
Elektrická pevnost 90 °C v olejové lázni II	IEC 60243	kV/25mm	75
Měrný povrchový odpor	IEC 60093	Ω	10 ¹⁴
Měrný objemový odpor	IEC 60093	Ω x cm	10 ¹³
Srovnávací index sledování (testovací roztok B)	IEC 60112	CTI	600 M

[⊥] = 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

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Page 2 / 2 (Dates in DD/MM/YYYY)

