

Technical Data Sheet

Durostone[®] UPGMZ -HT

Product characteristics

- Special polyester (UP) resin system for high heat resistance
- reinforced with a combination of glassfiber mat and rovings
- good mechanical properties in lengthwise and crosswise direction

Product industries

- Vehicle Construction
- Bus
- Traffic Engineering & Infrastructure
- Mechanical Engineering Industry
- Building industry
- Electrical Industry

	Test method	Unit	Guideline value
Mechanical properties			
Flexural strength, lengthwise	ISO 178	MPa	250 - 400
Flexural modulus, lengthwise	ISO 178	MPa	15000 - 25000
Flexural strength, crosswise	ISO 178	MPa	100 - 250
Flexural modulus, crosswise	ISO 178	MPa	5000 - 13000
Compressive strength, perpendicular	ISO 604	MPa	100 - 200
Tensile strength, lengthwise	ISO 527	MPa	200 - 400
Tensile strength, crosswise	ISO 527	MPa	50 - 150
Thermal properties			
Flammability	UL 94	/	HB
Temperature index	IEC 60216	T.I.	180
Max. continuous operating temperature		°C	150
Physical properties			
Density	ISO 1183	g / cm ³	1,8 - 2,1
Glass content	ISO 1172	%	45 - 80
Water absorption	ISO 62	%	< 3
Dielectrical properties			
Electrical strength, perpendicular, 90 °C	IEC 60243	kV / mm	4 - 10
Comparative tracking index	EN 60112	CTI	600

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	Test method	Unit	Guideline value
Volume resistance	DIN EN 62631-3-1	$\Omega \times \text{cm}$	$10^{10} - 10^{13}$
Surface resistance	DIN EN 62631-3-2	Ohm	$10^{11} - 10^{14}$

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.com/gtc

