

## Technical Data Sheet

# Durostone<sup>®</sup> PMP 334

GFK-UP

### Typical characteristics

- Good mechanical properties
- Electrically insulating
- Polyester (UP) resin matrix reinforced by fiberglass

### Typical industries

- 차량 제조
- Rail Technology and Vehicles

	Test method	Unit	Guideline value
<b>General properties</b>			
Standard Color			Grey
<b>Mechanical properties</b>			
Flexural strength <sup>⊥</sup>	ISO 178	MPa	165
Flexural modulus, crosswise	ISO 178	MPa	12000
Compressive strength <sup>⊥</sup>	ISO 604	MPa	258
Tensile strength II	ISO 527	MPa	70
Tensile modulus of elasticity	DIN EN ISO 527	MPa	11000
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	80
<b>Thermal properties</b>			
Railway classification	EN 45545-2		R1-R2-R6-R7-R17 / HL2
Limit oxygen index	EN ISO 4589-2	%	44
Flammability	IEC 60707	/	V0/3mm
Fire test, class	NF P 92-501	/	M1
<b>Physical properties</b>			
Shrinkage	ISO 2577	%	0.03
Density	ISO 1183	g / cm <sup>3</sup>	1.88
Glass content	ISO 1172	%	27
Water absorption	ISO 62	%	< 0.3
<b>Dielectrical properties</b>			
Electric strength 90°C under oil <sup>⊥</sup>	IEC 60243	kV / mm	>10

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	Test method	Unit	Guideline value
Specific surface resistance	IEC 60093	$\Omega$	$10^{13}$
Specific volume resistance	IEC 60093	$\Omega \times \text{cm}$	$10^{14}$
Comparative tracking index	IEC 60112	CTI	600

⊥ = perpendicular to the lamination

|| = 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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