

Technical Data Sheet

Durostone[®] 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
General properties			
Standard Color			Grey
Mechanical properties			
Flexural strength [⊥]	ISO 178	MPa	165
Flexural modulus, crosswise	ISO 178	MPa	12000
Compressive strength [⊥]	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 ²	80
Thermal properties			
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
Physical properties			
Shrinkage	ISO 2577	%	0.03
Density	ISO 1183	g / cm ³	1.88
Glass content	ISO 1172	%	27
Water absorption	ISO 62	%	0.3
Dielectrical properties			
Electric strength 90°C under oil [⊥]	IEC 60243	kV / mm	>10

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	Test method	Unit	Guideline value
Specific surface resistance	IEC 60093	Ω	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

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