

Technical Data Sheet

Durostone® UPGMZ -HT

Typical 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

Typical 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

	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	$10^{11} - 10^{14}$

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