

## 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

- Výroba vozidel
- Autobusy
- Dopravní technika a infrastruktura
- Stavba strojů a zařízení
- Stavební průmysl
- Elektrotechnický průmysl

	Test method	Unit	Guideline value
<b>Mechanical properties</b>			
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
<b>Thermal properties</b>			
Flammability	UL 94	/	HB
Temperature index	IEC 60216	T.I.	180
Max. continuous operating temperature		°C	150
<b>Physical properties</b>			
Density	ISO 1183	g / cm <sup>3</sup>	1,8 - 2,1
Glass content	ISO 1172	%	45 - 80
Water absorption	ISO 62	%	< 3
<b>Dielectrical properties</b>			
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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