

Technical Data Sheet

Durostone[®] UPGMZ -ISO

Typical characteristics

- isophthalic acid based unsaturated polyester resin (UP-ISO)
- reinforced with a combination of glassfiber mat and rovings
- good mechanical properties in lengthwise and crosswise direction
- Chemical resistance

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
Tensile strength, lengthwise	ISO 527	MPa	200 - 500
Tensile strength, crosswise	ISO 527	MPa	50 - 150
Thermal properties			
Temperature index	IEC 60216	T.I.	155
Max. continuous operating temperature		°C	130
Physical properties			
Density	ISO 1183	g / cm ³	1,8 - 2,1
Glass content	ISO 1172	%	50 - 80
Water absorption	ISO 62	%	< 1
Dielectrical properties			
Electrical strength, perpendicular, 90 °C	IEC 60243	kV / mm	5 - 12
Volume resistance	DIN EN 62631-3-1	Ω x cm	10 ¹⁰ - 10 ¹³
Surface resistance	DIN EN 62631-3-2	Ohm	10 ¹¹ - 10 ¹⁴