

Veralite[®] 100 - Technical data sheet

PHYSICAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
Specific gravity	ISO 1183	g/cm ³	1,33
Water absorption	ISO 62	%	0,15

MECHANICAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
Tensile strength	ISO 527	MPa	53,5
Elongation at break	ISO 527	%	> 100
Tensile modulus	ISO 527	MPa	± 2600
Impact strength unnotched	ISO 180	KJ/m ²	no burst
Impact strength notched	ISO 180	KJ/m ²	3,9
Rockwell hardness	DIN 2039	M / R	M80 / R114

THERMAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
Coefficient of linear expansion	ASTM D696	mm/mC°	± 0,060
Specific Heat	DSC	J/gC°	1,13
Heat deflection temp. (0,45 MPa)	ISO 75	°C	70
Heat deflection temp. (1,82 MPa)	ISO 75	°C	67
Vicat softening point (1 kg)	ISO 306	°C	78
Vicat softening point (5 kg)	ISO 306	°C	73

OPTICAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
Light transmission	ASTMD1003	%	82 - 89*
Haze	ASTMD1003	%	1,9
Gloss (60° angle)	ASTMD1003	units	148

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ELECTRICAL PROPERTIES			
Properties	Method	Units	Veralite [®] 100
Surface resistivity	ASTMD257	Ω	$1 \cdot E15$
Dielectric constant (at 1 MHz)	ASTMD150	~	3,1
Dissipation factor ($\text{tg } \delta$, 1 MHz)	ASTMD150	~	0,056
Dielectric strength (500V/sec)	ASTMD149	kV/mm	18
Glow wire test	IEC 695/2.1	C°	650

BARRIER PROPERTIES			
Properties	Method	Units	Veralite [®] 100
Permeability for water vapour	ASTMF372	g/mm/m ² /24h	1,5
Gas permeability for CO ₂	ASTMD1434	g/mm/m ² /24h	28
Gas permeability for O ₂	ASTMD3985	g/mm/m ² /24h	5,1

Temporary and limited list made to our best knowledge at this time - based upon 3 mm sheet.
The technical data concerning our products are not binding and are given for guidance only.

* Test results from 1 - 3 mm

For more specific information, please feel free to contact our technical department :

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