

Veralite[®] 100 - Technical data sheet

PHYSICAL PROPERTIES

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

MECHANICAL PROPERTIES

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

THERMAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
<i>Dilatation coefficient</i>	ASTMD696	mm/mC°	± 0,060
<i>Specific Heat</i>	DSC	J/gC°	1,13
<i>Heat deflection temp. (0,45 MPa)</i>	ISO 75	°C	70
<i>Heat deflection temp. (1,82 MPa)</i>	ISO 75	°C	67
<i>Vicat softening point (1 kg)</i>	ISO 306	°C	78
<i>Vicat softening point (5 kg)</i>	ISO 306	°C	73

OPTICAL PROPERTIES

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

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ELECTRICAL PROPERTIES

Properties	Method	Units	Veralite [®] 100
Surface resistivity	ASTMD257	W xcm	1*E15
Dielectric constant	ASTMD150	1 MHz	3,1
Dissipation factor	ASTMD150	1 MHz	0,056
Dielectric strength (500V/sec)	ASTMD149	KV/mm	18
Filament test	IEC 695/2.1	C°	650

BARRIER PROPERTIES

Properties	Method	Units	Veralite [®] 100
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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