



## Balsa Wood Core Material

- High quality composite core material made from end-grain Balsa
- Exceptional shear and compressive strength
- Suitable for a wide range of Marine applications designed with the properties of Balsa
- Suitable for hand layup, vacuum bag and infusion processes

### Introduction

Balsaflex® is a typical density balsa wood core material.

When an application requires high strength, stiffness and cost effectiveness, Balsaflex® is a suitable solution due to a good balance between cost, properties and weight.

Balsaflex® is available in all infusion formats including:

- Coated or uncoated for resin uptake control
- Perforated or drilled holes to aid infusion
- Rigid or flexible to conform to complex tool geometry

Please refer to the Balsaflex® product brochure for full details.

Principal Technical Data	Units	Balsaflex® 110	Balsaflex® 150	Balsaflex® 220
<b>Dimensions<sup>1</sup></b>				
<b>Length</b>	mm	1220	1220	1220
	in	48	48	48
<b>Width</b>	mm	610	610	610
	in	24	24	24
<b>Thickness<sup>3</sup></b>	mm	5 up to 55	5 up to 55	5 up to 25.4
	in	1/4 up to 2	1/4 up to 2	1/4 up to 1
<b>Mechanical properties (average)<sup>2</sup></b>				
<b>Nominal density</b>	Kg/m <sup>3</sup>	110 ±10%	160-150 ±10%	220 ±10%
	Lb/ft <sup>3</sup>	7 ±10%	9.5 -10 ±10%	13.7 ±10%
<b>Compression strength ASTM C-365</b>	MPa	10.1	14.1	17.5
	Psi	1464	2045	2538
<b>Compression Modulus ASTM C-365</b>	MPa	3228	4376	5199
	Psi	468181	634684	754051
<b>Tensile strength ASTM C-297</b>	MPa	9.4	12.6	13.8
	Psi	1363	1827	2001
<b>Tensile Modulus ASTM C-297</b>	MPa	2234	3347	3930
	Psi	324014	485441	569998
<b>Shear Strength ASTM C-273</b>	MPa	2.0	3.1	4.3
	Psi	290	449	623
<b>Shear Modulus ASTM C-273</b>	MPa	146	189	206
	Psi	21175	25091	29877

<sup>1</sup> Tolerances on demand

<sup>2</sup> Technical data certified by Applus Certification Technological Center. Test values in SI units.

<sup>3</sup> Thickness values provided are for flexible (contour scrim) format. Higher thicknesses are available for rigid (plain sheet) panels.



## Notice

SP-High Modulus is the marine business of Gurit (the company). All advice, instruction or recommendation is given in good faith but the Company only warrants that advice in writing is given with reasonable skill and care. No further duty or responsibility is accepted by the Company. All advice is given subject to the terms and conditions of sale (the Conditions) which are available on request from the Company or may be viewed at the Company's Website: [www.gurit.com/termsandconditions\\_en.html](http://www.gurit.com/termsandconditions_en.html).

The Company strongly recommends that Customers make test panels and conduct appropriate testing of any goods or materials supplied by the Company to ensure that they are suitable for the Customer's planned application. Such testing should include testing under conditions as close as possible to those to which the final component may be subjected. The Company specifically excludes any warranty of fitness for purpose of the goods other than as set out in writing by the Company. The Company reserves the right to change specifications and prices without notice and Customers should satisfy themselves that information relied on by the Customer is that which is currently published by the Company on its website. Any queries may be addressed to the Technical Services Department.

Gurit are continuously reviewing and updating literature. Please ensure that you have the current version, by contacting Gurit Marketing Communications or your sales contact and quoting the revision number in the bottom right-hand corner of this page.

### UK

St Cross Business Park  
Newport, Isle of Wight  
United Kingdom PO30 5WU

**T** +44 (0) 1983 828 000

**F** +44 (0) 1983 828 100

**E** [marine@gurit.com](mailto:marine@gurit.com)

### Australia

Unit 1A / 81 Bassett Street,  
Mona Vale, 2103 NSW,  
Australia

**T** +61 (0) 2 9979 7248

**F** +61 (0) 2 9979 6378

**E** [sales-au@gurit.com](mailto:sales-au@gurit.com)

### New Zealand

32 Canaveral Drive, Albany,  
Private Box 302-191,  
North Harbour, 0751  
Auckland, New Zealand

**T** +64 (0) 9 415 6262

**F** +64 (0) 9 415 7262

### Canada

175 rue Péladeau,  
Magog, (Québec)  
J1X 5G9, Canada

**T** +1 819 847 2182

**F** +1 819 847 2572

**E** [marine-na@gurit.com](mailto:marine-na@gurit.com)

### USA

115 Broadcommon Road  
Bristol, Rhode Island 02809  
USA

**T** +1 401 396 5008

**F** +1 401 396 5246

**E** [marine-na@gurit.com](mailto:marine-na@gurit.com)

[www.gurit.com](http://www.gurit.com)