



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
- Balsaflex® 110 & 150 are approved by GL and Lloyds Registry

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
Dimensions¹				
Length	mm	1220	1220	1220
	in	48	48	48
Width	mm	610	610	610
	in	24	24	24
Thickness³	mm	6.35 to 50.8	6.35 to 50.8	6.35 to 25.4
	in	1/4 up to 2	1/4 up to 2	1/4 up to 1
Mechanical properties (average)²				
Nominal density	Kg/m ³	110	155	220
	Lb/ft ³	6.9	9.7	13.7
Typical density range	Kg/m ³	100-125	135-176	200-242
	Lb/ft ³	6.3-7.8	8.4-11.0	12.5-15.1
Compression strength ASTM C-365	MPa	10.1	14.1	17.5
	Psi	1464	2045	2538
Compression Modulus ASTM C-365	MPa	3228	4376	5199
	Psi	468181	634684	754051
Tensile strength ASTM C-297	MPa	9.4	12.6	13.8
	Psi	1363	1827	2001
Tensile Modulus ASTM C-297	MPa	2234	3347	3930
	Psi	324014	485441	569998
Shear Strength ASTM C-273	MPa	2.0	3.1	4.3
	Psi	290	449	623
Shear Modulus ASTM C-273	MPa	146	189	206
	Psi	21175	25091	29877
Compression Strength (Transverse to fibre) ASTM C-365	MPa	0.4	0.75	1.27
	Psi	58	108	184
Compression Modulus (Transverse to fibre) ASTM C-365	MPa	43	79	105
	Psi	6235	11457	15228
Tensile Strength (Transverse to fibre) ASTM C-297	MPa	0.7	0.8	1.0
	Psi	102	116	145
Tensile Modulus (Transverse to fibre) ASTM C-297	MPa	23	28	32
	Psi	3336	4061	4641

¹ Tolerances on demand

² Technical data certified by Applus Certification Technological Center. Test values in SI units.

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



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