

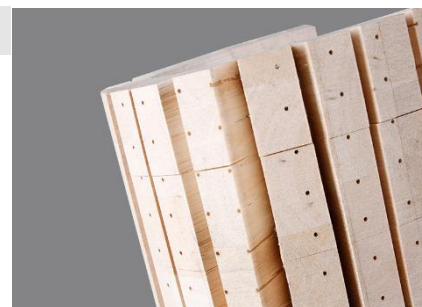
产品参数表

BalCore® BC

结构巴沙轻木

产品特性/Product Properties

- | | |
|---------------------|--|
| • 强度/刚度-重量比突出 | • Significantly high specific strength/stiffness |
| • 温度适应好(-212~+163℃) | • Service temperature varies from -212 to +163℃ |
| • 环保材料 | • Eco-friendly material |
| • 隔音隔热性能强 | • Good sound and heat insulation |
| • 抗冲击性能好 | • Good impact resistance |
| • 出色的耐疲劳性能 | • Excellent fatigue resistance |
| • 防潮性能好 | • Good humidity resistance |



BalCore®是联洋公司经营的经专业干燥处理的巴沙木，具有非常高的强度-重量比和刚度-重量比。经过特殊的表面处理，可以与任何树脂或粘结剂实现完美结合，是制造夹层结构的理想芯材。

应用领域/Applications

- | | |
|-------------------------------|--|
| • 风能:
风电叶片、机舱罩等 | • Wind Energy:
Wind Turbine Blade, Nacelle Cover, ... |
| • 船舶:
船体、甲板等 | • Vessels:
Hulls, decks, etc.. |
| • 轨道交通:
墙壁、面板、内部结构等 | • Orbit Transportation:
Walls, Panels, Inner Structures, ... |
| • 工业:
工装、管道、仪表盘等 | • Industries:
Tools, Piping, Instrument Board,... |
| • 航空:
飞机零部件、集装箱等 | • Aviation:
Aircraft Parts, Container, ... |
| • 国防:
舰艇、指挥掩体等 | • National Defense:
Naval Vessels, Command Bunker, ... |

BalCore® is a brand of balsa wood marketed by NMG, with very high strength-to-weight ratio and stiffness-to-weight ratio. With its surface specially coated, it can bond with any kinds of resins or adhesives perfectly. Thanks to these priorities, it is an ideal core material for manufacturing sandwich structural products.

应用工艺/ Applicable Processes

- | | |
|------------------|------------------------------------|
| • 粘结 | • Bonding Processes |
| • 接触成型（手糊/喷射） | • Contact Forming（Lay-up/Spray-up） |
| • 模压成型 | • Compression Molding |
| • 预浸料成型（高达 180℃） | • Prepreg Relative Processes(180℃) |
| • RTM 及真空导流 | • RTM and Vacuum Infusion |

典型性能/Typical Performance		单位/unit	BC110	BC150	BC220
木方密度 Block Density	ASTM-C271	Kg/m ³	100-120	135-176	176-242
木条密度 Lumber Density	ASTM-C271	Kg/m ³	70-150	96-256	150-290
压缩强度 Compressive Strength	ASTM-C365	MPa	6.3 (5.7)	11 (6.3)	13.9 (11)
压缩模量 Compressive Modulus	ASTM-C365	MPa	1793 (1630)	3300 (2275)	4679 (3000)
剪切强度 Shear Strength	ASTM-C273	MPa	1.8 (1.5)	2.5 (1.8)	4.3 (2.5)
剪切模量 Shear Modulus	ASTM-C273	MPa	106 (96)	160 (122)	206 (160)
拉伸强度 Tensile Strength	ASTM-C297	MPa	6.4 (5.2)	10 (6.3)	11.9 (10)
拉伸模量 Tensile Modulus	ASTM-C297	MPa	2200 (1800)	3000 (2275)	3930 (3000)
室温下导热性 Thermal Conductivity At Room Temperature	ASTM-C177	W/(m·K)	0.048	0.066	0.084
含水率 Moisture Content	ISO 3130	W%	≤12%		
轻木轮廓板 Balsa Contour Sheets	长/Length	mm	1220(±2)		
	宽/Width	mm	610(±2)		
	厚/Thickness	mm	3~50(±0.5)		

*上表数据为近似密度值，因密度变化，数值可能低于上表所列值，用于结构夹层结构设计的最低密度值可按需求提供。

*Data in the sheet above is approximate values. Due to its variable density, the values may be less than the data above. The lowest density value for designing sandwich structures can be offered if necessary.

*以上数据为 23±1° C 和 50±5%湿度条件下测试平均值

*Above are the average values measured at 23+1°C and 50+5% as RH.

*加工方式，其他尺寸基于客户要求

*Finishing Options, other dimensions and closer tolerances upon request

备注/Notes:

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