

Performance BALSA WOOD

Boards and Sheets from APM



SPECIFICATION

- ✦ All natural, green and clean.
- ✦ Outstanding strength to weight ratio.
- ✦ Enhanced corrosion & chemical resistance.
- ✦ Standard fire & heat resistance (thermal insulation).
- ✦ Ultimate noise and sound insulation.
- ✦ Exceptional impact resistance.
- ✦ Exceptional physical strength and super lightweight.
- ✦ Exceptional durability and thermal stability.
- ✦ Available in various densities.
- ✦ Manufactured sustainably, lowest carbon footprint.
- ✦ Can be used to manufacture laminated and sandwich panels.
- ✦ Can be use paint or coat with thermoset resins of your choice.
- ✦ Reduce resin uptake by 70%.
- ✦ Lloyd's Registered and approved by DNV GL.
- ✦ Certified by Forest Stewardship Council (FSC™).
- ✦ Easy installation and usage. Complete customization available.
- ✦ Does not release any toxic substances or byproducts during and after product lifecycle.



APPLICATIONS

- ✦ Bus, train, rail, cruise, car and boat seat bottoms.
- ✦ Stadium interior wall and partitions.
- ✦ Interior walls for bus, caravan, train, rail, boat, yacht and cruise.
- ✦ Car, bus, train, boat, yacht, cruise hood.
- ✦ Wall panels for private houses, restaurants, shopping mall, office buildings, commercial building, warehouses, storage rooms etc.
- ✦ Ceiling panels for private housing, restaurants, commercial buildings, shopping mall, warehouse industrial roofing.
- ✦ Door and window panels.
- ✦ Floor, wall and roof thermal insulation.
- ✦ Noise insulation wall and partition.
- ✦ Indoor and outdoor furniture, table, park bench, chair, walking closet, kitchen table, drawers.
- ✦ Model building and toys. Sporting goods and articles.



APM
Advanced Performance
Materials

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TEST STANDARDS		Units (metric)	Ultra Lite (UL)	Wind Grade (WG)	Standard Grade (SG)	Heavy Weight (HW)
Nominal Density	ASTM C-271	Kg. / m ³	100	132	152	280
Compressive Strength	ASTM C-365	MPa	6,53	9,25	10,67	21,62
Compressive Modulus	ASTM C-365	MPa	2036	2037	2349	4385
Tensile Strength	ASTM C-297	MPa	7,50	12,48	14,39	18,05
Tensile Modulus	ASTM C-297	MPa	2238	3100	3574	5692
Shear Strength	ASTM C-273	MPa	1,88	2,36	2,72	5,57
Shear Modulus	ASTM C-273	MPa	110	162	186	364
Thermal Conductivity at 24 °C	ASTM C-177	W/m.K	0,048	0,057	0,066	0,084
Standard Sheet	Length	mm	1220	1220	1220	1220
	Width	mm	610	610	610	610
	Thickness	mm	6,35 to 76,20	6,35 to 76,20	6,35 to 76,20	6,35 to 76,20

Nominal value is an average value of a mechanical property at a nominal density. Tests are perpendicular to the plane.

Continuous operating temperature range:	-212° C to +163° C
Moisture content:	from 6% to 12%