

Balsa Wood Core

High quality end-grain **Balsa** wood core material from Ecuador.

Dimensions: 1220 x 610 mm

Available in different versions:

- Rigid (plain sheets)
- Flexible (grid-scored)



Characteristics

- Low resin absorption
- High impact strength
- Great strength to weight ratio
- High sound dampening properties
- Natural and renewable
- Lightweight
- High chemical resistance (including styrene)
- Excellent bonding

Industries

- **Marine:** stringers, decks, transoms, bulkheads
- **Industrial:** tanks, covers, tooling, container
- **Wind power:** nacelles, rotor blades
- **Road:** cabs, sleeper floors, trailer beds, walls
- **Rail:** floors, doors, side skirts, roof panels, partition walls

Processing

- Contact molding (hand lay-up and spray-up)
- Vacuum infusion
- Resin injection (RTM / VARTM / RTM Light)
- Adhesive bonding
- Compression molding
- Prepreg (up to 180°C)

Various options available upon request:

- *thickness: from 6.35 mm to 76.20 mm (1/4" to 3");*
- *density: from 100 kg/m³ to 280 kg/m³;*
- *finish: coated (epoxy-based), perforated, parallel or crosswise grooves (1 or 2 sides), vacuum infusion cut (crosswise grooves 1 or 2 sides + perforations).*

Technical Data: Balsa

Nominal density: 280 kg/m³ standard.

<i>Property</i>	<i>Standard</i>	<i>Value</i>	<i>Unit</i>
Compressive Strength	ASTM C-365	21,62	MPa
Compressive Modulus	ASTM C-365	4385	MPa
Tensile Strength	ASTM C-297	18,05	MPa
Tensile Modulus	ASTM C-297	5692	MPa
Shear Strength	ASTM C-273	5,57	MPa
Shear Modulus	ASTM C-273	364	MPa
Thermal Conductivity at 24°C	ASTM C-177	0,084	W/m.K

Nominal density: 150 kg/m³ standard.

<i>Property</i>	<i>Standard</i>	<i>Value</i>	<i>Unit</i>
Compressive Strength	ASTM C-365	10,67	MPa
Compressive Modulus	ASTM C-365	2349	MPa
Tensile Strength	ASTM C-297	14,39	MPa
Tensile Modulus	ASTM C-297	3574	MPa
Shear Strength	ASTM C-273	2,72	MPa
Shear Modulus	ASTM C-273	186	MPa
Thermal Conductivity at 24°C	ASTM C-177	0,066	W/m.K

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