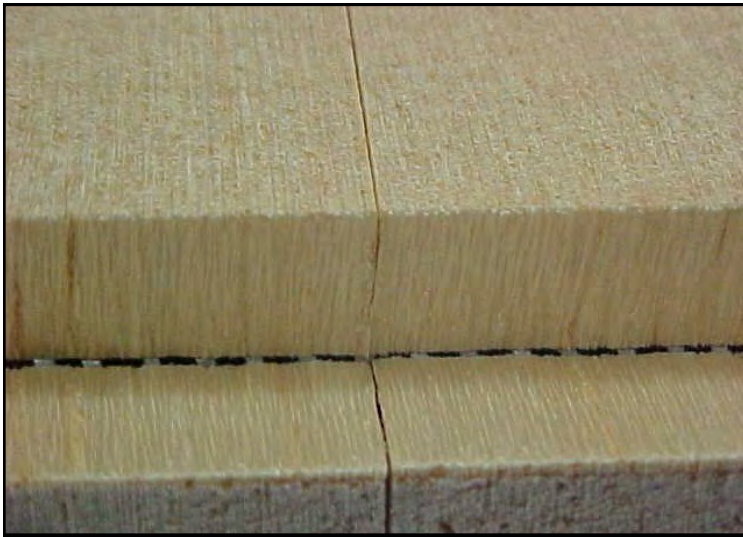


Product Data Sheet: CarbonBalsa



End Grain Balsa, a highly processed ultra light wood product, imparts impressive strength and stiffness to the sandwich panel. The end grain configuration of balsa provides high resistance to crushing, and is very difficult to tear apart. End grain balsa cored panels also have the ability to handle excessive dynamic loads with high resistance to fatigue. CarbonBalsa's end-grain orientation gives it exceptional compression and shear properties. As an added benefit, CarbonBalsa provides good thermal and acoustic insulation. CarbonBalsa is select quality, kiln-dried, end-grain balsa wood suitable as a structural core material in composite sandwich construction. CarbonBalsa is a naturally renewable resource.

CarbonBalsa panels are available in 24"X48" in all scored applications up to 1.5" thick Rigid CarbonBalsa

is available in 24"X49" or 48"X96" up to 20" thick by special order. Various facings available as per Product Options Section Scoring available 1"X2" in Length Direction (L) Width direction (W), Double Scored (DS) or Scored both ways (S) All CarbonBalsa panels available coated to reduce resin consumption. (Type S) Infusion grade grooved and (or) perforated CarbonBalsa available. Fillet strips available in 3/8"; 1/2"; 3/4"; 1" in rigid and scored versions. PITH Grade CarbonBalsa available for select

CHARACTERISTICS

- ◆ Low resin absorption
- ◆ Great impact strength
- ◆ Great strength to weight ratio
- ◆ High sound dampening properties
- ◆ Lightweight
- ◆ Natural

INDUSTRIES

- ◆ Marine: Stringers, decks, transoms, bulkheads
- ◆ Industrial: Tanks, covers, ductwork, tooling, container
- ◆ Wind Power: Nacelles, rotor blades
- ◆ Road: Cabs, sleeper floors, Trailer beds, walls
- ◆ Rail: Floors, doors, side skirts, roof panels, partition walls

PROCESSING

- ◆ Adhesive bonding
- ◆ Compression Molding
- ◆ Contact molding
- ◆ Vacuum Infusion
- ◆ Resin Injection

All tests carried out by independent laboratory. This information is provided in good faith and is subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Carbon-Core Corp will not assume any liability from use or misuse of data presented herein. Assessment of suitability is the responsibility of end user only.

Mailing Address: PO Box 332, Keswick, VA 22947
Warehouse: 48 Zion Station Court, Troy, VA 22947
Tel: 434-510-7115 info@carbon-core.com

Product Data Sheet: CarbonBalsa

Tests		Imperial Units	Metric Units
Compressive Strength	ASTM C365	1895psi	6.17 MPa
Compressive Modulus	ASTM C365	590000psi	4067.91 MPa
Tensile Strength	ASTM C297	1900psi	13.10 MPa
Shear Strength	ASTM C273	432psi	2.98 MPa
Shear Modulus	ASTM C273	23100psi	159.27 MPa
Elongation at Break	N/A	13%	13%
Thermal Conductivity (74°F)	ASTM C177	0.028 BTU/(hr*ft*°F)	0.048 W/mK
Moisture Content	ASTM D4442	8-12%	8-12%
Density	N/A	9.0-10.0 lb/ft ³	144-160 kg/m ³

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