

CoreLite® Board

Product Data Sheet

Last Revised: October 05, 2015

CoreLite® Board is a cost-effective closed-cell PVC foam specially formulated to provide high physical properties and be recyclable. Engineered for easy workability, weatherproof and insulation properties, and excellent fire behavior. It is characterized for its phenomenal screw retention and amazing resistance to moisture; it will not rot, mold or mildew. It is also compatible with multiple resins and adhesives.

CoreLite® Board is a stand-alone product and can be used without skins as a replacements for wood and plywood. This PVC foam has excellent fastener pullout strength and high flexural strength and stiffness. CoreLite® Board is 27% lighter than plywood.

PROCESSING

- Adhesive bonding
- Prepreg processing
- Contact Molding (hand/spray)
- Compression molding (GMT, SMC)
- Resin infusion / injection (VARTM / RTM)



APPLICATIONS

Marine: Transom Boards, Consoles, Seat Bottoms, Decks, Floors, Bulkheads, Stringers, Superstructures, Engine Beds, Interiors, Local Reinforcements, Tooling and Molds

Transportation: Primary Body Structure, Interior Panels, Sidewalls, Floors, Roofs and Engine Covers

Construction: Decks, Roof Panels, Doors, Windows, Cabinets, Tables and Architectural Panels

Industrial: Covers, Containers, Refrigeration, Tanks, Local Reinforcements, Sporting goods, Tooling and Molds

Signs: Outdoor Displays, Dimensional Lettering, Dimensional Signs and Channel Letter Backer

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CoreLite[®] Board

Mechanical Properties for CoreLite[®] Board

TEST STANDARDS		Units (Imperial)	VALUES
Density	ASTM C271	Lbs. / cu.ft	28
Compressive Strength	ASTM D1621	psi	847
Compressive Modulus	ASTM D1621-B	psi	423
Tensile Strength	ASTM C297	psi	481
Shear Strength	ASTM C273	psi	445
Shear Modulus	ASTM C273	psi	5519
Shear Elongation at Break	ISO 1922	%	1.404
Flexural Strength	ASTM D790	psi	1799
Peel Strength	ASTM D1062	Lbs./in	1706
Screw Torque		in/Lbs.	20.2
Screw Pull		Lbs.	226.2
Standard Sheet	Length	inch	96
	Width	inch	48
	Thickness	inch	1/4 to 2

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

Processing temperature:	< 200 °F
Water Absorption:	< 1%
Density Tolerance:	+ / - 10%
Color:	White

Disclaimer: The information and data presented herein are subject to revision. CoreLite Inc. reserves the right to release replacement data. The data presented is derived from in house and independent testing. Calculations should be verified with physical test. The data is provided without liability to CoreLite, Inc. or its agents and does not constitute warranty or representation in respect to the material or its use.

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Mechanical Properties for CoreLite® Board

TEST STANDARDS		Units (metric)	VALUES
Density	ASTM C271	Kg. / m ³	448,52
Compressive Strength	ASTM D1621	MPa	5,84
Compressive Modulus	ASTM D1621-B	MPa	2,92
Tensile Strength	ASTM C297	MPa	3,32
Shear Strength	ASTM C273	MPa	3,07
Shear Modulus	ASTM C273	MPa	38,05
Shear Elongation at Break	ISO 1922	%	1.404
Flexural Strength	ASTM D790	MPa	12,40
Peel Strength	ASTM D1062	Kg./m	11,76
Screw Torque		N·m	2,28
Screw Pull		Kg.	102,60
Standard Sheet	Length	mm	2440
	Width	mm	1220
	Thickness	mm	6,35 to 50,80

Values shown are nominal average determined from independent laboratory and house testing. Tests are perpendicular to the plane.

Processing temperature:	< 94 °C
Water Absorption:	< 1%
Density Tolerance:	+ / - 10%
Color:	White

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