3A Composites Core Materials BALTEK® SB.50 Structural End-Grain Balsa

Category : Other Engineering Material , Composite Core Material , Wood and Natural Products , Wood , Hardwood

Material Notes:

BALTEK® SB is a core material produced from certified kiln-dried balsa wood in the 'end-grain' configuration. It has extremely high strength and stiffness to weight ratios, and achieves an excellent bond with all types of resins and adhesives. It is compatible with a variety of manufacturing processes and is resistant to temperature changes, or exposure to fire, or chemicals such as styrene. BALTEK® SB is an ideal core material for an extensive range of applications. All while being a renewable resource.Characteristics: Extremely high strength and stiffness to weight ratiosExcellent fire performanceEcological productWide operating temperature range -212 °C to +163 ° C (-414 °F to +325 °F)Excellent fatigue resistanceGood sound and thermal insulationHigh impact strengthGood moisture resistanceApplicationsMarine: Hulls, decks, bulkheads, superstructures, interiors, tooling + moldsRoad and Rail: Floors, walls, roof panels, body panels, interiors, front-ends, side skirtsWind Energy: Rotor blades, spinners, nacelle covers, generator housingsAircraft: Floor panels, galley carts, interior partitions, cargo pallets, containers, general aviation (sport aircraft) partsDefense: Naval vessels, containers, cargo pallets, sheltersIndustrial: Tooling, tanks, ductwork, impact limiter, concrete forms, fascia panels, skis, snowboards, wakeboards

Order this product through the following link:
http://www.lookpolymers.com/polymer_3A-Composites-Core-Materials-BALTEK-SB50-Structural-End-Grain-Balsa.php

Physical Properties	Metric	English	Comments
Density	0.0940 g/cc	0.00340 lb/in³	apparent nominal; ASTM C271

Mechanical Properties	Metric	English	Comments
Tensile Strength	7.40 MPa	1070 psi	perpendicular to plane; ASTM C297
Tensile Modulus	2.20 GPa	319 ksi	perpendicular to plane; ASTM C297
Compressive Strength	6.30 MPa	914 psi	perpendicular to plane; ASTM C365
Compressive Modulus	1.993 GPa	289.1 ksi	perpendicular to plane; ASTM C365
Shear Modulus	0.106 GPa	15.4 ksi	ASTM C273
Shear Strength	1.80 MPa	261 psi	ASTM C273

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0480 W/m-K	0.333 BTU-in/hr-ft²-°F	ASTM C177

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