

 **BASF**

We create chemistry



ACROFIBER™

Lightweight Natural Fiber Composites

Features

- Rapidly renewable fiber
- Acrylic based binder
 - No added formaldehyde
- Reduced plastic usage
- Acoustic properties
- Unique physical properties

Benefits

- Credit support to LEED®
- Capability to meet low emission standards
- Light weighting
- Sound absorption
- New applications



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Lightweight Natural Fiber Composites

Natural Bast Fibers + Acrylic Based Resins = ACROFIBER

ACROFIBER is the combination of rapidly renewable bast fibers with acrylic based resins and pressed or molded into flat panels or 3D shapes. No added formaldehyde, sustainable fiber materials, and strength to weight ratios allows products fabricated with ACROFIBER to contribute to various programs such as LEED® and meet sustainability initiatives. The unique combination of fiber and resin allows the reduction of plastic used in composites and can be an alternative to fiber glass based composites.

Typical Physical Properties

S1400 series - 3mm panels	Imperial	Metric
Density	30 lbs/ft ³	485 Kg/m ³
Modulus of Rupture	2750 psi	19 MPa
Modulus of Elasticity	391600 psi	2700 MPa
Internal bond	175 psi	1.20 MPa
Length/width tolerance	+0.25/ -0.063 in	+6.3/ -1.6 mm
Thickness tolerance	+/- 0.012 in	+/- 0.30 mm
Thickness swell (2hr / after oven dry)	0.020" / 0.018"	0.5mm / 0.46mm
Moisture Content	6 – 8 %	6 – 8 %
Noise reduction coefficient (ASTM E1050 - 0/12mm Gap)	.25 / .65	.25 / .65
Emissions (EPA TSCA Title IV)	TBD	TBD
Fungi Growth (ASTM G21)	Comparable to MDF	Comparable to MDF

Typical Physical Properties

- Furniture components: sheet goods and 3D molded shapes
- Acoustical: ceilings, wall panels, architectural doors
- Engineered components: decorative plywood, office furniture components, tack board
- Recreational vehicles: wall systems, cabinets, enclosures
- Can be combined with liquid applied sound dampening or barrier coatings (LASD/LASB)
- Applications where light weighting adds value

Contacts

Please contact our technical service department for more help working with products from the ACROFIBER product line.

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