



ACROFIBER™ S1400 Series

Product Nature

ACROFIBER S1400 Series: Plant-based non-woven panels bonded with an acrylic resin
Natural Bast Fibers + Acrylic Based Resins = ACROFIBER

Typical Properties

S1400 series	3mm Flat Panels		5mm Flat Panels	
	Imperial	Metric	Imperial	Metric
Modulus of Rupture	30 lbs/ft ³	485 Kg/m ³	18.4 lbs/ft ³	295 Kg/m ³
Modulus of Elasticity	2750 psi	19 MPa	1180 psi	8.1 MPa
Internal bond	391600 psi	2700 MPa	145000 psi	1000 MPa
Length/width tolerance	175 psi	1.20 MPa	N/A	N/A
Thickness tolerance	+0.25 in / -0.063 in	+6.3 mm / -1.6 mm	+0.25 in / -0.063 in	+6.3 mm / -1.6 mm
Thickness swell (2hr / after oven dry)	+/- 0.012 in	+/- 0.30 mm	+/- 0.012 in	+/- 0.30 mm
Moisture Content	0.020 in / 0.018 in	0.50 mm / 0.46 mm	0.008 in / 0.006 in	0.20 mm / 0.15 mm
Noise reduction coefficient (ASTM E1050 - 0/12mm Gap)	6 – 8%	6 – 8%	6 – 8%	6 – 8%
Emissions (EPA TSCA Title IV)	0.25 / 0.65	0.25 / 0.65	0.35 / 0.70	0.35 / 0.70
Fungi Growth (ASTM G21)	TBD	TBD	TBD	TBD

Size and Color

Standard 4' x 8' nominal panel (49" x 97")
 Thickness: 3mm & 5mm
 Color: Black and Natural

Features

ACROFIBER is the combination of rapidly renewable bast fibers with acrylic based resins that is 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 a LEED® and to meet sustainability initiatives. The unique combination of fiber and resin allows the reduction of plastic used in composites and can be an alternative to fiberglass-based composites.

ACROFIBER's unique physical properties allow the fabrication of articles with reduction of plastic usage, inherent acoustical properties, no added formaldehyde, and overall weight reduction. Production process allows the possibility of incorporating specialty additives into the matrix of the composite. The addition of specialty additives broadens the potential applications including fire protection and exterior uses.

Applications

- 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
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Safety**General**

The usual safety precautions when handling material must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheets for ACROFIBER S1400 series products.

Storage and Handling

ACROFIBER S1400 comes in 4' x 8' panels and it needs to be kept dry. Care should be taken when handling pallets and opening straps.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

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