



ULTRABLADE® 2

NEXT-LEVEL BLADE PERFORMANCE

Ultrablade® 2 leverages the power of WindStrand® 4000's higher modulus at increased Fiber Volume Fractions to improve laminate modulus in the main fiber direction. Ultrablade® 2 allows more efficient blade design and enables the making of lighter, longer blades that reduce the cost of wind energy.

- Produced with H² Glass, the second-generation high-modulus glass specifically designed for wind blades by Owens Corning.
- Manufactured with the world's best fabric technology at state-of-the-art Owens Corning facilities.
- Compatible with epoxy, polyester, and vinyl ester resin systems. Contact us with questions regarding compatibility with other resin systems.

FOR HIGH-PERFORMING, LONGER WIND BLADES

Product Benefits

Superior Laminate Performance

- 51GPa laminate modulus – true performance proven by ISO 527 testing method.

Excellent Processability

- Fast wet-out, good processing and handling characteristics.
- Operation at increased Fiber Volume Fraction (FVF) levels.

Reliable Supply

- Owens Corning® H² Glass is continuously produced at scale and increasing capacity, delivering reliable product supply and consistency.

Applications

Ultrablade® 2 is a higher-performance fabric that enables blade designers to minimize the weight and maximize the length & strength of wind blades:

- Spar caps
- Shell
- Root
- Shear web
- Trailing edge



Properties

CHARACTERISTIC	TEST METHOD	MODULUS @ 55% FVF (GPa)	STRENGTH CHAR (MPa)	ELONGATION (%)
Tensile 0°	ISO527-5A	51	1,250	2.5
Compression 0°	ISO 14126	51	850	1.5
V-Notch Shear	ASTM-D7078	4.2	60	-
Inter Fiber Fracture	ISO 527-5B	14	54	-

FRACTURE

FATIGUE	TEST METHOD	SLOPE VALUE (M)
R=0.1	ISO 13003	10–11
R=-1	ISO 13003	12–15

Average values from fabric laminate tests.

Availability and Packaging

This product is available globally in unidirectional and multiaxial constructions. Packaging information available upon request.

Storage

Glass fiber products should be stored in a dry area and remain in their original packaging until use. Product should be protected from the weather and other sources of water.

It is recommended that the product be used for manufacturing in resin within 36 months.



HOW WE POWER NOW

Americas

Owens Corning Composite Materials, LLC.

One Owens Corning Parkway
Toledo, Ohio, USA 43659
1-800-GET-PINK®

Europe

European Owens Corning Fiberglas Sprl.

166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 3 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters

40/F, Pudong Kerry Parkside,
115 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

<https://www.owenscorning.com/wind> | Composites@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe on any patent or violate any law, safety code, or insurance regulation. We reserve the right to modify this document without prior notice.

Pub no. 10024706. Ultrablade2_product data sheet. March 2021. English.

THE PINK PANTHER™ & © 1964–2021 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. © 2021 Owens Corning. All Rights Reserved.