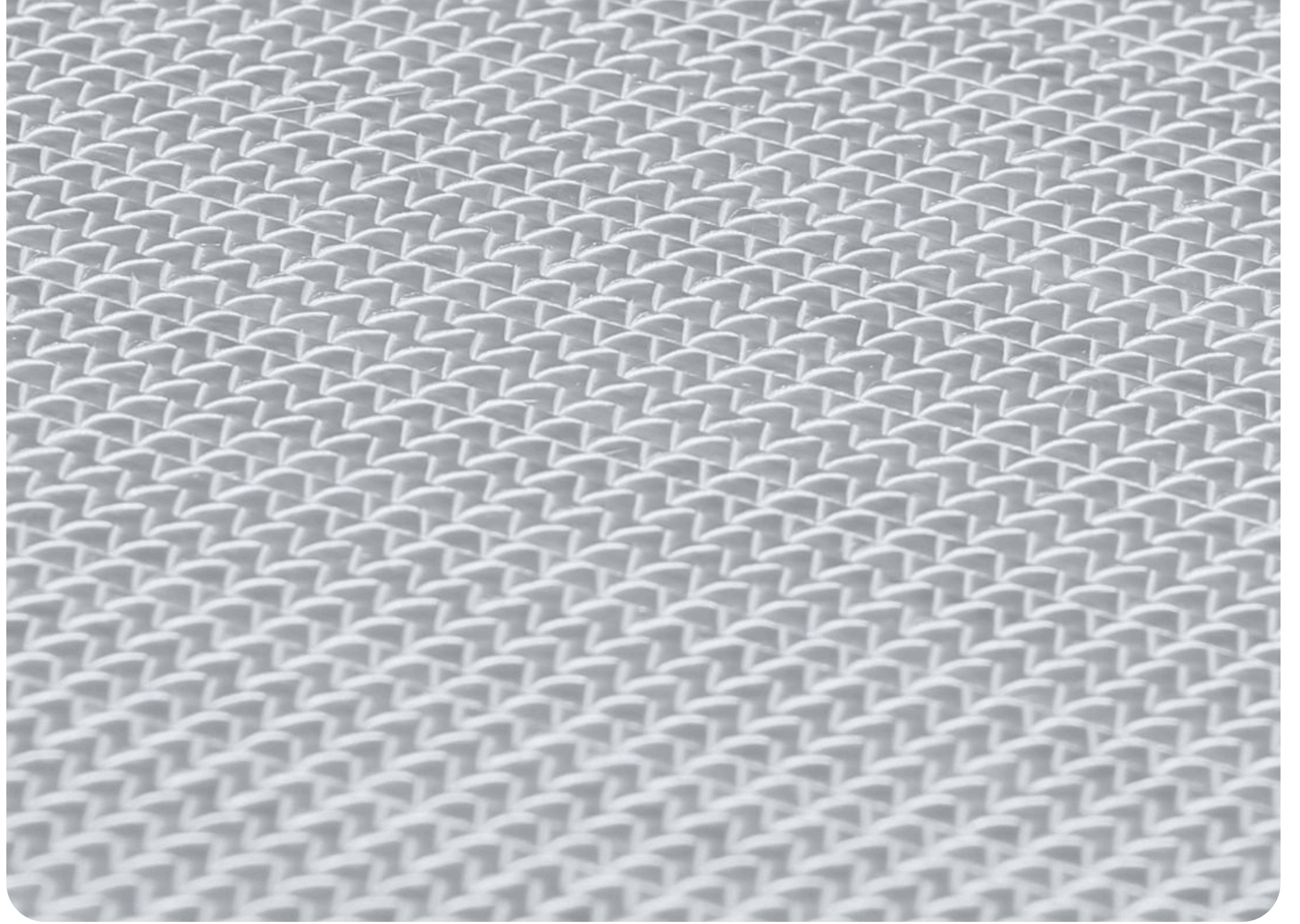


ULTRABLADE® 2

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.

✓ Manufactured with the world's best fabric technology at state-of-the-art 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

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



Reliable Supply

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



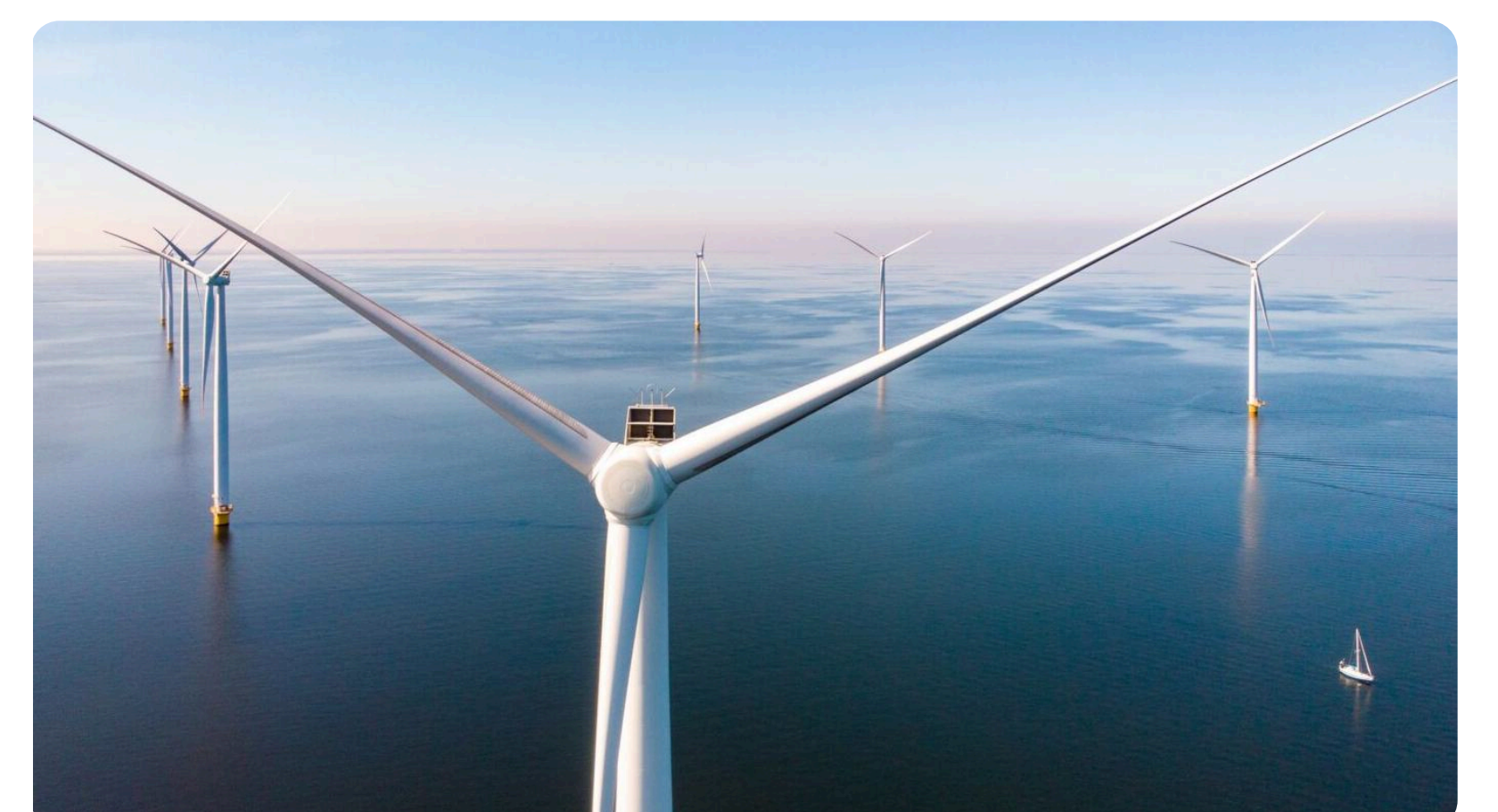
Excellent Processability

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

Application

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 & 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.

MAKE
MORE
POSSIBLE™

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