



ULTRASPAR® 2

Next-level spar caps



Ultraspar® 2 combines the higher performance of WindStrand® 4000 with the consistency of the pultrusion process, allowing efficient, cost-effective blade design and production. High-performance glass-pultruded profiles enable lighter, longer, stronger 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.

✔ Ultraspar® 2 is pultruded with epoxy resin and is compatible with infusion in epoxy resin systems. Contact Owens Corning regarding compatibility with other resin systems.

FOR LONGER BLADES PRODUCED EFFICIENTLY

Product Benefits



Proven Performance

- 63 GPa laminate 0° tensile modulus (at 70% FVF — Fiber Volume Fraction) – true performance to enable longer, lighter blades.
- Balances increased FVF to maintain strong fatigue performance.



Consistency And Productivity

- Pultrusion delivers consistent glass content for reliable performance and eliminates on-site spar cap infusion for improved productivity.
- Low porosity enables mechanical stability and quality consistency.
- Double-sided PA66 peel ply cover with easy peel-off, enabling an ideal contact surface for excellent bonding properties.



Reliable Supply

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

Application

Ultraspar® 2 is a high-performance pultruded profile custom-designed for wind blade spar caps. Ultraspar® 2 enables blade designers to optimize the weight and maximize the length and strength of wind blades.



Properties

CHARACTERISTIC*	TEST METHOD	STRENGTH MEAN (MPA)	MODULUS MEAN (GPA)
0° Tensile**	ISO 527-5A	1,350	63
0° Compression**	ISO 527-5B	1,250	63
90° Tensile	ISO 527-5	50	14
90° Compression	ISO 14126	140	14
V-Notched Rail Shear	ASTM D7078	55	4
Fatigue (Tension-Tension)	ISO 13003	M value = 8.5	

* Typical FVF at 70%.

** The sample piece is milled to 2 mm thick rectangle coupon for testing.

DATA SOURCE – Above typical data from third-party lab testing lab.

Availability & Packaging

This product is currently available in China. Please contact your Owens Corning representative for information in your region.

Ultraspar® 2 is a custom-designed product requiring the profile dimensions of the specific design for a blade. Adequate time is needed for die preparation to properly produce the product.

Ultraspar® 2 has coiled inner diameters of at least 1,500 mm and outer diameters up to 2,300 mm.

Storage

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

**MAKE
MORE
POSSIBLE™**

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