



ULTRABLADE[®] UD REDEFINED HIGH PERFORMANCE REINFORCEMENT

Ultrablade[®] UD delivers improved laminate stiffness in the main fiber direction and operation at high fiber volume fraction (ie. 57% FVF), resulting in stronger, longer and lighter blades. Ultrablade[®] UD utilizes Owens Corning premium roving technology to enable blade design optimization.

- Manufactured using the best glass fabric technology at Owens Corning state-of-the-art facilities worldwide.

FOR WIND BLADE PRODUCTION

Product Benefits

Longer Blades

- Higher modulus fabrics for 20% longer blades.

Superior Performance

- Excellent 90° performance and improved infusion properties.

Lighter Blades

- 5% reduction in blade mass.*

*Spar cap weight reduction and use in skin laminate.

Application

Wind Blade Production

- Spar Cap
- Trailing Edge



Technical Characteristics

ULTRABLADE® UD FABRICS	TYPE	APPLICATIONS
Ultrablade® G3 LTx 1150-1800	UD 0°	Spar cap and trailing edge

Static Properties of Ultrablade® UD fabrics range (as an example)
Average values from fabric laminate tests (IMA-Dresden, Resin L135/H137, FVF 53-56%).

TEST	NORM	STRENGTH (MPA)	STRENGTH (95%/5%) (MPA)	ELONGATION (%)	ELONGATION (95%/5%) (%)
Modulus	55% FVF	47000			
Tensile 0°	ISO527-5A	1149	1055	2.81	2.38
Compression 0°	ISO14126	904	792		
ILSS	ISO14130	61			
Inter Fiber Fracture	ISO527-5B	56			

Product Availability

Ultrablade® UD is available in all regions.

Packaging

(Standard Reference)

Available upon request.



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