



ULTRABLADE[®] MULTIAXIAL SUPERIOR SOLUTIONS

Ultrablade[®] Multiaxial fabrics are specially designed to enable load reduction on bolts and blade length extension.

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

FOR WIND BLADE PRODUCTION

Product Benefits

Increased Strength

- Multiaxial fabric increases root laminate stiffness and strength.

Improved bolt fatigue life

- Up to 17% reduction of the transferred loading to the rotor blade root bolts.

Application

Wind Blade Production

- Root section and blade shell laminates.
- Other applications requiring premium stiffness and strength.



**Technical
Characteristics**

Ultrablade® Multiaxial Product Range

ULTRABLADE® MULTIAXIAL	TYPE	APPLICATIONS
Ultrablade® TLX 800-2000 Ultrablade® TTX 800-2000	Multiaxial	Root Section
Ultrablade® BX 600-1200	Biaxial	Shell Laminate

Static Property of TTX 1500 (as an example)

Laminate fabricated with RIMR035c/RIMH037, testing conducted by Momentive Specialty Chemicals Stuttgart GmbH.

TEST	NORM	MODULUS [GPA]	MEAN STRENGTH (MPA)	CHARACTERISTICS STRENGTH (MPA)	ELONGATION [%]	FWF [%]
0° Tension	ISO 527-4	41.10	830.00	770.00	2.23	74.60
0° Compression	ISO 14126	39.60	616.00	509.00	1.58	72.50
90° Tension	ISO 527-4	12.90	53.80	46.90	0.71	72.90
Shear (G12)	ISO 14129	5.0	26.90	23.60		72.90
ILSS	ISO 14130		54.60	52.20		

**Product
Availability**
(Standard
Reference)

Ultrablade® is available in all regions.

Packaging
(Standard
Reference)

Available upon request.



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