



WINDSTRAND® 3000A TYPE 30® ROVING LIGHTER BLADES, HIGHER PERFORMANCE

Windstrand® 3000A combines high weaving efficiencies and increased tensile Modulus at 0° for lighter blades and reliable performance. Blades utilizing Windstrand® 3000A are capable of operating in extreme environments due to its optimized design.

- Windstrand® 3000A is compatible with epoxy resin.
- Produced with H-glass, specially designed for applications that require high Modulus and long fatigue life.
- DNV-GL Quality system certified in all manufacturing locations.

FOR HIGH PERFORMANCE BLADES

Benefits*

- 0° fiber Modulus greater than 88 GPa
- Enhanced 90° properties
- High weaving efficiency for strong blades
- Operation at increased Fiber Volume Fraction (FVF) levels
- Lighter blades: 3-6% blade weight reduction

*Owens Corning internal tests; or external tests by designer, depending on application, 2013

Applications

- Optimized design for wind turbines in all on-shore and off-shore locations.
- Helping with high performance designs of Spar Cap, Shell and Root.
 - Production of longer and lighter blades help in especially low wind areas.



Technical Characteristics (Single-End Roving)

PRODUCT OFFERINGS WINDSTRAND® 3000A	NOMINAL FILAMENT DIAMETER (µm)	LINEAR DENSITY TEX (G/KM) ISO 1889	SOLIDS (%) ISO 1887
300 Tex	13	300 ± 15	0.65 ± 0.20
600 Tex	17	600 ± 30	0.55 ± 0.12
1200 Tex	17	1200 ± 60	0.55 ± 0.12
2400 Tex	17	2400 ± 120	0.55 ± 0.12

Product Availability
(Standard Reference)

This product is available in China only.

Packaging
(Standard Reference)

Rovings are available in a single-end internal-pull package. Each pallet weighs approximately 1 ton. Pallets are stretch-wrapped for load stability. All doffs are wrapped with Tack-Pak™ for protection and to aid package run-out and transfer. Full doffs are approximately 19 kg (40 lb.) and they can be packaged in bulk or Creel-Pak® format.

Standard Package:

- Cylindrical bobbin without tube, Outside Diameter (OD) ± 270mm, height 260-300mm.
- Partial bobbins have smaller diameter.
- Max bobbin weight must not exceed 19kg.
- Bobbin covered by a Tack-Pak™ film.

Pallet:

- Size: 1150 x 1150mm, 4 ways entry.
- 16 bobbins (ma x OD) per layer. Pallets are 3 or 4 tiers high.
- Pallet is stretch-wrapped.

Identification:

- Bobbin label (each bobbin).
- Four pallet labels, one on side of the pallet.



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Pub number: 10018978. Windstrand 3000A_product sheet_ww_08-2019_Rev0_EN, August 2019.

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