



# WINDSTRAND® 3000 TYPE 30®

## Lighter blades, higher performance

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

✔ 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.

✔ Windstrand® 3000 is compatible with epoxy resin.

### Product Benefits



0° Fiber Modulus Greater Than 88 GPa



Operation At Increased Fiber Volume Fraction (FVF) Levels



Enhanced 90° Properties



Lighter Blades: 3-6% Blade Weight Reduction



High Weaving Efficiency For Strong Blades

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

### Application

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

PRODUCT OFFERINGS WINDSTRAND® 3000	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

## Availability

Owens Corning® High-Modulus Glass is globally available in WINDSTRAND® single-end roving form factor. Please, contact your Owens Corning representative for information on TEX (yield) ranges and resin systems compatibility in your region.

## Packaging

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) ± 270 mm, height 260–300 mm.
- Partial bobbins have smaller diameter.
- Max bobbin weight must not exceed 19 kg.
- Bobbin covered by a Tack-Pak® film.

### Pallet:

- Size: 1150 x 1150 mm, 4 ways entry.
- 16 bobbins (max 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.

**MAKE  
MORE  
POSSIBLE™**

### Americas

One Owens Corning Parkway  
Toledo, Ohio, USA 43659  
1-800-GET-PINK™

### Europe

166 Chaussée De La Hulpe  
B-1170 Brussels, Belgium  
+32 3 674 8211

### Asia Pacific

40/F, Pudong Kerry Parkside,  
115 Fang Dian Road, Pudong,  
Shanghai, 201204, China  
+86-21-61019666

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