

# HP2 PIPESTRAND® S4000 SINGLE-END ROVING

Higher modulus.  
High performance



**Type 30® HP2 PipeStrand® S4000 single-end roving combines high winding efficiency with the power of a higher-modulus glass for redesigning Type IV pressure vessels.**

✓ Produced with H<sup>2</sup> Glass, the second-generation high-modulus glass specifically designed for high-performance applications.

✓ Designed for epoxy filament winding applications.

**FOR PRODUCTION OF LIGHTER GLASSFIBER REINFORCED COMPOSITE PRESSURE VESSELS WITH HIGH NET WEIGHT EFFICIENCIES**

## Product Benefits



### Proven Performance

- Fiber Modulus: 91GPa – true performance proven by sonic modulus of glass fiber (NOL TR 65-87) testing method.



### Reliable Supply

- H<sup>2</sup> Glass is continuously produced at scale and increasing capacity, delivering reliable product supply and consistency.



### Excellent Processability

- High unwinding performances to allow fast filament winding process.
- Fast wet-out in epoxy resin, allowing up to 80% fiber volume fraction.

## Application

HP2 PipeStrand® S4000 is designed for the manufacturing of lighter weight glassfiber composite pressure vessels. HP2 PipeStrand® S4000 improves material systems for Type IV vessel filament winding.



Properties

| RESIN | NOMINAL FILAMENT DIAMETER (μm) | LINEAR DENSITY (tex) ISO 1889 | SOLIDS (%) ISO 1887 | MOISTURE (%) ISO 3344 |
|-------|--------------------------------|-------------------------------|---------------------|-----------------------|
| Epoxy | 17                             | 600/1,200/2,400               | 0.55 +/- 0.12       | <= 0.1                |

Availability & Packaging

This product is available in Europe. Type 30® single-end roving is available in a single-end internal-pull package. Each pallet weighs approximately 1 metric 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 can be packaged in bulk or Creel-Pak® format.

Standard package

- Cylindrical doff without tube, outside diameter (OD) +/- 270 mm, height 260–300 mm
- Partial doffs have small diameters
- Max doff weight must not exceed 19 kg (40 lb)
- Doff covered by a Tack-Pak® film

Pallet

- Size: 1,150 x 1,150 mm, 4-way entry
- 16 bobbins (max OD) per layer
- Pallets 3 or 4 tiers high
- Pallet is stretch-wrapped

Labeling

Each individual doff is labeled with information including product name, tex/yield, producing plant, and production date and weight. Each of the four pallets is labeled on one side.

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

MAKE  
MORE  
POSSIBLE™

China  
Room 301C+304,  
1188 Minsheng Road,  
Pudong, Shanghai  
201705, China  
+86 21 8010 3596

This information and data contained herein is offered solely as a guide in the selection of product. We do not guarantee its applicability to the user’s process or assume any responsibility or liability arising out of its use or performance. The physical and chemical properties of this product represent typical, average values obtained in accordance with stated test methods and are subject to normal manufacturing variations. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. We reserve the right to modify this document without prior notice.

Pub. No. 10027099. HP2 PipeStrand® S4000 Product Data Sheet. October 2026. English. © 2026 OCF - Original Composites & Fiberglass. All Rights Reserved.