



# PIPESTRAND® HP2 S4000 SINGLE-END ROVING

**More modulus  
high performance**

**Type 30® PipeStrand® S4000 HP2 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 by Owens Corning.

✔ 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

- Owens Corning® 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

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



## Properties

PRODUCT	NOMINAL FILAMENT DIAMETER (µm)	LINEAR DENSITY (TEX) ISO 1889	SOLIDS (%) ISO 1887	MOISTURE (%) ISO 3344
PipeStrand® S4000 HP2	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

Glass fiber products must remain in the packaging material until just prior to use. It is recommended to bring material into a workshop area at least 24 hours prior to use. PipeStrand® S4000 HP2 roving should be stored in a dry area with ambient temperature optimally from 8 °C to 26 °C and relative humidity of 70% or less. To ensure optimal performance, retesting is recommended for products stored more than two years from the initial production. The packaging system is designed to allow stacking of two pallets. When stacking two-high, care should be taken to place the top pallet correctly and smoothly.

**MAKE  
MORE  
POSSIBLE™**

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