

HP2 PIPESTRAND®
S4500 SINGLE-END ROVING

Enhanced performance



Type 30® HP2 PipeStrand® S4500 is a high-modulus single-end roving designed for enhanced performance in filament winding and pultrusion applications.

-  Enhanced fatigue properties Tensile - Tensile R0.1: Stress at 1M cycles
-  Designed for epoxy pultrusion resin

Product Benefits



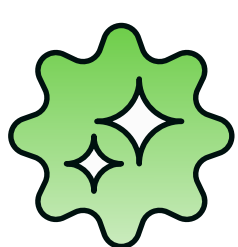
Excellent Processing

Smooth run-out combined with enhanced impregnation enabling excellent surface quality even at high FVF.



Increased Productivity And Part Quality

Fast, uniform strand wet-out leads to higher glass loading and good adhesion, resulting in optimized part production speed, which supports increased productivity and better-quality finished parts.



Outstanding Mechanical Properties

Excellent fatigue properties in epoxy, providing maximum part strength, and long field service life.

Application

This product is made using OCF’s H² high quality glass, which is specifically developed for applications that require high modulus and long fatigue life providing unique properties for pipe and pultruded parts.



Technical Characteristics

RESIN	NOL		ITS	
	TENSILE STRENGTH (MPa) GB/T 1458 - 2008	SHEAR STRENGTH (MPa) ASTM D2343	TENSILE STRENGTH (MPa) ISO 9163	TENSILE MODULUS (GPa) ISO 9163
Epoxy	1224.7	57.7	3273.7	95.7

Results obtained using 2400 tex 17µm glass fibers.

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Availability & Packaging

HP2 PipeStrand® S4500 is available in EU, NA, India, and China in 1200/2400 tex 17µm and 413/207 yield 17µm. Rovings are available in a single-end internal-pull package. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak™ or shrinkable film for protection during transport. More information is available in the Customer Acceptance Standards.

Labeling

Each individual package is labeled with information including: product name, tex/yield, producing plant, and production date.

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

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