



PIPESTRAND® S1000 MAXIMIZE PERFORMANCE, MINIMIZE COST

PipeStrand® S1000 is made for fabricators that want to reduce material cost, while increasing the performance of their products. Designed to provide excellent hydrostatic basis, fight corrosion, increase efficiency and service life in the low-pressure filament-wound pipe, tank and vessel markets.

- PipeStrand® S1000 single-end rovings are produced in manufacturing facilities certified to ISO 9001.
- Made with corrosion resistant Advantex® E-CR glass, a Type 30™ reinforcement that provides excellent corrosion resistance and increased service life.
- Advantex® glass offers the unique attributes of being both a boron-free E-glass and an E-CR glass in accordance with ASTM D578 and ISO 2078.

FOR SINGLE-END ROVINGS FOR HIGH-PERFORMANCE LOW-PRESSURE FILAMENT-WOUND APPLICATIONS

Product Benefits

Outstanding Mechanical Properties

Excellent shear and hydrostatic properties in all major resin systems, provide maximum part strength, long service life and hydrostatic design basis.

Reduce Cost

Fast, uniform strand wet-out in all major resin systems, results in optimized part production speed and increased productivity, reducing manufacturing costs.

Multi-resin Compatibility

Excellent glass/resin bonding in polyester, vinyl ester, polyurethane, acrylic, and epoxy resins, providing the processor maximum flexibility with one input glass. This reduces inventory and eliminates the need for costly downtime and labor during product change overs.

Excellent Processing

Smooth run-out combined with low fuzz properties, result in smoother parts and less downtime for clean-up, enabling higher efficiencies and lower manufacturing costs.

Corrosion Resistant

Excellent corrosion resistance with Advantex® Glass compared to standard E-glass: providing longer service life in applications facing corrosion.

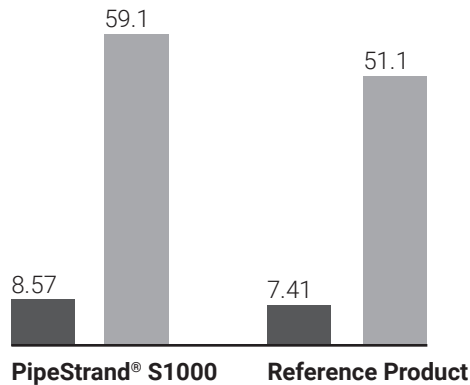
Application

PipeStrand® S1000 roving is specifically designed to match the unique needs of the low-pressure filament winding market. Compatible with polyester, vinyl ester, epoxy and polyurethane resins, it serves a variety of applications: water distribution (water desalination, water treatment, sewage), industrial (petrochemical), transportation (marine), infrastructure (light poles) and power/energy (LPG). PipeStrand® S1000 products can meet pipe user requirements for high mechanical properties, durability, corrosion resistance, and low weight.

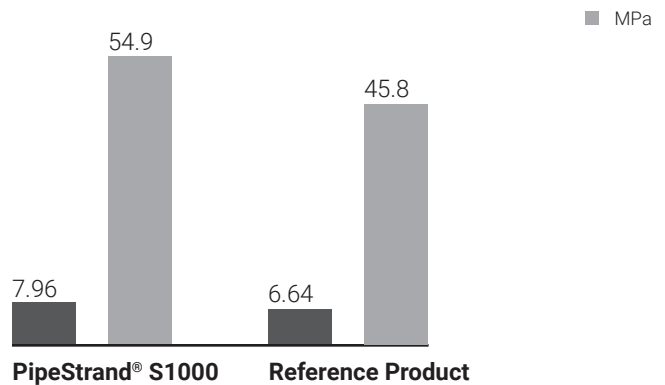
Mechanical Properties

The following data was generated comparing PipeStrand® S1000 rovings to a global standard product used in the same applications. The data demonstrates shear strength (ksi, MPa) using ASTM D2344. PipeStrand® S1000 rovings show a nearly 15-20% improvement over reference products in tested properties in polyester and vinyl ester, respectively.

Shear Strength - Polyester



Shear Strength - Vinyl Ester



Laboratory sample: Mechanical testing lab | Resin package: Polyester, Vinyl Ester | Test method: ASTM D2344 | Test property: Shear Strength | Units: ksi, MPa

Availability (Standard Reference)

TEX	YIELD	REGION AVAILABLE
735	675	NA
1200	413	EU, India
2000	250	NA, EU
2400	207	India
4800	103	India

Compatibility

EPOXY	POLYESTER	VINYL ESTER	POLYURETHANE
X	X	X	X

Packaging (Standard Reference)

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.

Storage

It is recommended to store glass fiber products in a cool, dry area. The glass fiber products must remain in their original packaging material until the point of usage. The product should be stored in the workshop in its original packaging, 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during the cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

Labeling

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

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