



SE1200 HP BOOST PROFITABILITY

SE1200 HP single-end Type 30™ roving is a compelling solution designed specifically for knitting and weaving with the versatility to work well in filament winding, pultrusion, and LFTP applications.

- Produced with patented Higher Performance glass by Owens Corning, the product provides superior mechanical properties with the excellent corrosion-resistance expected from our Advantex® formulations.
- Multi-resin compatibility, with strong bonding in polyester, vinyl ester, and polyurethane.

HIGHER PERFORMANCE AND PROCESS FLEXIBILITY FOR WEAVING, KNITTING, FILAMENT WINDING, AND PULTRUSION

Product Benefits

Excellent Processing

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

Multi-Process & Multi-Resin Compatibility

- Flexibility for use with standard weaving looms, multiaxial knitting machines, filament winding, and pultrusion.

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.

Reduced Cost

- Fast, uniform strand wet-out leads to higher glass loading, reducing resin demand.
- Fast wet-out also increases production speed and productivity, resulting in reduced manufacturing cost.

Enhanced Service Life

- Compared to standard E-glass, Higher Performance is an E-CR glass that provides longer service life in applications facing corrosion, and possesses high-fatigue properties to help qualify for wind energy.

Applications

SE1200 HP is designed for use in the manufacture of knitted or woven glass fabrics used for transportation applications, pultruded central strength members for fiber optic cabling, filament wound pipe, and tanks for liquid transport or energy storage.



Technical Characteristics

The following data were generated by comparing Higher Performance SE1200 HP to standard SE1200, using an aromatic amine/epoxy resin system and an unsaturated polyester resin system, respectively. Sample preparation and fiber weight fraction were controlled to create comparable data.

Up to
15% IMPROVEMENT
in Strand Tensile

Test method ASTM D2343

Up to
6% IMPROVEMENT
in Epoxy NOL Ring ILSS

Test method ASTM D2344

Up to
10% IMPROVEMENT
in Unsaturated Polyester
NOL Ring ILSS

Test method ASTM D2344

Availability & Packaging

TEX	YIELD	REGION
276	1800	North America, Europe, India
300	1654	
600	827	
735	675	
1100	450	
1200	413	
2000	248	
2200	225	
2400	206	
4400	113	

Rovings are available in a single-end internal-pull package. Pallets are stretch-wrapped for load stability and for protection to aid strand run-out and transfer. Pallets are available in bulk or Creel-Pak™ pallet packaging format, depending on region.

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 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, within its original packaging, for 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during cold weather. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

It is recommended that the product be used for manufacturing in resin within 18 months. Ideal conditions are at a temperature between 8°C and 26°C and a relative humidity of 70% or less.



Americas

Owens Corning Composite Materials, LLC.

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

Europe

European Owens Corning Fibreglas Sprl.

166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 3 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters

40/F, Pudong Kerry Parkside,
115 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

<https://www.owenscorning.com/composites> | Composites@owenscorning.com

This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. 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 on any patent or violate any law, safety code, or insurance regulation. We reserve the right to modify this document without prior notice.