



INNOVATIONS FOR LIVING™

PRODUCT INFORMATION

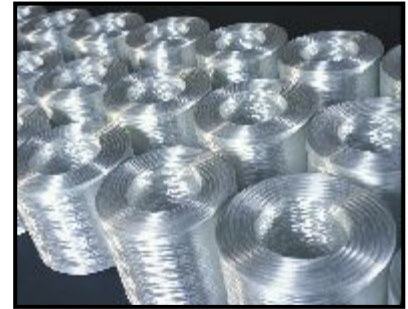
SE 1200

Single End Roving for Knitting, Weaving, and Filament Winding

PRODUCT DESCRIPTION

Single-End Rovings are produced by pulling individual fibers directly from the bushing and winding them onto a roving package ready for shipment. The uniform distribution of a proprietary sizing system ensures an excellent resin-to-glass binding through uniform distribution of the binding agent. This results in maximum strand integrity.

Single-End Rovings are manufactured using the T30® Roving state-of-the-art technology of Owens Corning, in conjunction with statistical process control in manufacturing facilities certified to ISO 9001.



© J.L. Sponga

PRODUCT APPLICATION

SE 1200 Roving is specifically designed for use in knitting and weaving applications in polyester, vinyl ester, and epoxy resin systems. SE 1200 rovings can be used in a variety of processes to manufacture knitted or woven glass fabrics, central stiffness members for fiber optic cabling, and filament wound pipe, tubes, or tanks. SE 1200 is designed to maximize fatigue performance in polyester resin. SE 1200 is specifically designed to optimize performances with Advantex® glass, Owens Corning's trademarked corrosion resistant E glass.



© Getty Image

FEATURES AND PRODUCT BENEFITS

<ul style="list-style-type: none"> • Excellent processing 	<ul style="list-style-type: none"> • Low fuzz properties which equate to low clean-up and high machines efficiencies • Excellent package runout and transfer with Tack-Pak® packaging • Optimum Package/Pallet weight
<ul style="list-style-type: none"> • Multi-process and multi-resin compatible 	<ul style="list-style-type: none"> • For use on standard weaving looms as well as multi-axial knitting machines • Also suitable for filament winding and pultrusion,
<ul style="list-style-type: none"> • Excellent strand opening and spreading 	<ul style="list-style-type: none"> • Fast wet-out and high resin pick-up equating to increased quality in parts visual aspect after molding
<ul style="list-style-type: none"> • Excellent laminate strength and fatigue properties 	<ul style="list-style-type: none"> • Provides high fatigue properties allowing this product to be qualified for wind energy.
<ul style="list-style-type: none"> • Available globally • Compliant with food and potable water regulation 	<ul style="list-style-type: none"> • Global manufacturers can use product in all regions resulting in lower design and qualifications costs.

SE 1200

Single-End Roving for Knitting, Weaving, and Filament Winding

PRODUCT AVAILABILITY

Yield	Tex
4960, 2480, 1653, 1216, 1210, 825, 675, 551, 450, 413, 330, 275, 250, 225, 207, 113, 103, 56	100, 200, 300, 408, 410, 600, 735, 900, 1100, 1200, 1500, 1800, 2000, 2200, 2400, 4400, 4800, 8800

MECHANICAL PROPERTIES

The following data was generated using production material SE 1200 – 735 Tex (675 Yield)

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
Anhydride/ DER 331 Epoxy resin	2700	395
Polyester F701 Resin	2570	375

Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	shear strength Retention 72 hr boil (%)
Anhydride/ DER 331 Epoxy resin	66.3	9620	99 %
Polyester F701 Resin	73.4	10650	85 %

PACKAGING

Rovings are available in a single-end internal-pull package. Each pallet weighed about 1 ton. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak® or shrinkable film for protection during transport. Full doffs are available in weights between 20 kg (45 lb.) and 27 kg (60 lb.), and they can be packaged in bulk or Creel-Pak® format. More information is available in the Customer Acceptance Standards.

STORAGE

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water. The glass fiber products must remain in their original packaging material until the point of usage. If these conditions are maintained, the glass fiber product should not undergo significant changes when stored for one year. Beyond one year after delivery, the product might evolve, specifically if stored outside the recommended conditions.

Best storage conditions are temperatures between 22°C and 23°C, and humidity between 60% and 65%.

The product should be stored in the workshop, within its original packaging, 48 hours prior to its utilization.

Contact:

SingleEndRoving.ocvamericas@owenscorning.com

SingleEndRovings.ocvmea@owenscorning.com

SingleEndRoving.ocvap@owenscorning.com



INNOVATIONS FOR LIVING™

OWENS CORNING

COMPOSITE MATERIALS, LLC

ONE OWENS CORNING PARKWAY

TOLEDO, OHIO 43659

1.800.GET.PINK™

www.owenscorning.com

Composites.owenscorning.com

OWENS CORNING

FIBERGLAS, SPRL.

166, CHAUSSÉE DE LA HULPE

B-1170 BRUSSELS

BELGIUM

+32 267 48211

OWENS CORNING

COMPOSITE SOLUTIONS BUSINESS

ASIA PACIFIC REGIONAL HEADQUARTERS

UNIT 01,02,05,39/F, PUDONG KERRY PARKSIDE

1155 FANG DIAN ROAD, PUDONG, SHANGHAI,

201204, CHINA

+86.21.6101.9666

This information and data contained herein is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. 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 to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. 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.

Owens Corning reserves the right to modify this document without prior notice. ©2011 Owens Corning

SingleEndRovings_SE1200_ww_12-2011_Rev3