



INNOVATIONS FOR LIVING™

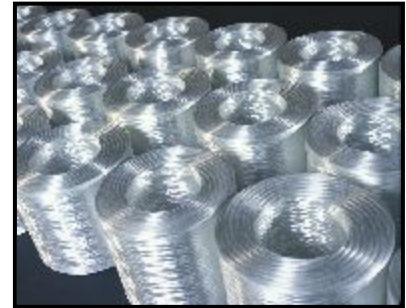
SE 1200

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

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.



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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. SE1200 is suitable for LFTP PA applications. SE 1200 is specifically designed to optimize performances with Advantex® glass, Owens Corning's trademarked corrosion resistant E glass.



FEATURES AND PRODUCT BENEFITS

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| <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 • Excellent processing in filament winding and pultrusion • Suitable for LFTP PA Compounding |
| <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 | <ul style="list-style-type: none"> • Global manufacturers can use product in all regions resulting in lower design and qualifications costs. |
| <ul style="list-style-type: none"> • Superior corrosion resistance with Advantex® Glass compared to standard E-glass | <ul style="list-style-type: none"> • Advantex® Glass provides superior corrosion resistance vs. standard E-glass, leading to longer part life and greater service life strength in applications facing corrosion. |

SE 1200

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

PRODUCT AVAILABILITY— NOT ALL TEX PRODUCED IN ALL REGIONS

Yield	Tex
4961, 2480, 1654, 1550, 1288, 1210, 1033, 827, 675, 551, 450, 431, 413, 330, 276, 250, 225, 207, 113, 103	100, 200, 300, 320, 385, 410, 480, 600, 735, 900, 1100, 1150, 1200, 1500, 1800, 2000, 2200, 2400, 4400, 4800

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 weighs approximately 1000 kg. Pallets are stretch wrapped for load stability. All doffs are wrapped with Tack-Pak® film wrap or shrinkable film for protection during transport. Full offs are available in weights between 20 kg (45 lb.) and 27 kg (60 lb.), and they can be packaged in bulk or Creel-Pak® pallet packaging format. 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, within its original packaging, 48 hours prior to its utilization, to allow it to reach the workshop temperature condition and prevent condensation, especially during cold season. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

When stored properly, there is no known shelf life to the product, but retesting is advised after three years from the initial production date to insure optimum performance.



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