



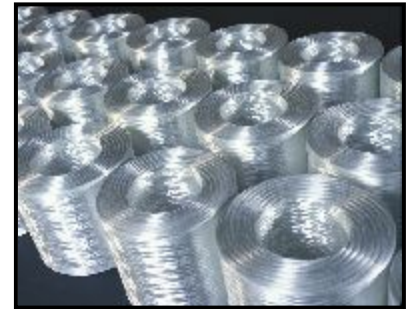
INNOVATIONS FOR LIVING™

SE2350 Roving Single-End Roving for 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.



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PRODUCT APPLICATION

SE 2350 roving is designed to be used in applications demanding high strength, excellent fatigue life, and excellent processing. Typical applications include small diameter oil field pipe, down hole tubing, well casing, and chemical processing pipe. SE 2350 roving can also be used in aerospace, military, transportation, and electrical applications.



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Advantex® Glass is an Owens Corning patented glass formulation, which meets ASTM D 578 and ISO 2078, as a boron-free corrosion resistant E-CR glass fiber. Advantex® Glass has been providing superior corrosion resistance vs. standard E-glass, since 1996, leading to longer part life and greater service life strength in applications facing corrosion, opening new markets for composites and our customers. Advantex® glass fiber reinforcements combine the electrical and mechanical properties of traditional E-glass with the acid corrosion resistance of E-CR glass. For additional information on Advantex® use the link below.

<http://composites.owenscorning.com/aboutAdvantex.aspx>

FEATURES AND PRODUCT BENEFITS

<ul style="list-style-type: none"> • Excellent processing 	<ul style="list-style-type: none"> • No catenary, which means smooth run-out throughout the package. • Designed to run-out under a variety of conditions. • SE2350 is specifically designed for lower drag across contact points, which gives very low fuzz generation resulting in smoother parts, less clean-up, and improved machine efficiencies. • The Tack Pak® packaging allows virtually 100% transfer efficiency
<ul style="list-style-type: none"> • Epoxy compatible sizing 	<ul style="list-style-type: none"> • The SE2350 silane-based sizing is designed to have excellent adhesion with both amine and anhydride cured epoxy resin systems
<ul style="list-style-type: none"> • Excellent laminate burst and fatigue properties 	<ul style="list-style-type: none"> • The SE2350 is designed to provide excellent laminate properties both burst, static and cyclic fatigue
<ul style="list-style-type: none"> • Fast wet out 	<ul style="list-style-type: none"> • The SE2350 sizing allow fast, uniform wet out of the strand in all resin systems • Fast wet out can allow for optimized part fabrication time increased productivity and improved competitive position
<ul style="list-style-type: none"> • Available globally 	<ul style="list-style-type: none"> • The SE2350 product line is available globally • Global manufacturers can use product in all regions resulting in lower design and qualification 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

SE2350 Roving

Single-End Roving for Filament Winding

PRODUCT AVAILABILITY

Yield	Tex
250 (16 and 22 Micron)	740, 2000 (16 and 22 Micron)

MECHANICAL PROPERTIES

The following data was generated using production material SE 2350 roving–250 Yield (2000 Tex -16 Micron)

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
Amine / DER 331 Epoxy resin	2240	325

Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	shear strength Retention 72 hr boil (%)
Amine / DER 331 Epoxy resin	64.4	9340	95%

PACKAGING

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. Full doffs are available in 20 kg (45 lb.) weight, and they can be packaged in Bulk Unit or a 16 end run out Creel-Pak® format. Pallets contain 64 doffs with net pallet weight approximately 1280 kg (2880 lbs). 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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