



SE2348 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 2348 roving is designed for 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 2348 roving is also 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

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| <ul style="list-style-type: none"> • Excellent Processing | <ul style="list-style-type: none"> • Low fuzz properties which equate to smoother parts, less cleanup and improved machine efficiency • Excellent package run out • Virtually 100% transfer efficiency • Designed to run-out under a variety of conditions |
| <ul style="list-style-type: none"> • Fast Wet Out | <ul style="list-style-type: none"> • Fast and Uniform wet-out can allow for optimized part fabrication time, increasing productivity. |
| <ul style="list-style-type: none"> • Epoxy-compatible sizing | <ul style="list-style-type: none"> • Silane based sizing designed to have excellent adhesion in both amine and anhydride cured epoxy resin systems |
| <ul style="list-style-type: none"> • Excellent burst and fatigue properties | <ul style="list-style-type: none"> • Provides excellent laminate properties in burst, static and cyclic fatigue |
| <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. |

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PRODUCT AVAILABILITY - Not all tex produced in all regions

Yield	Tex
207, 250, 450, 675	2400, 2000, 1100, 735

MECHANICAL PROPERTIES

The following data was generated using Anhydride/ DER 331 Epoxy resin

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
SE2348 roving 2000 tex (250 Yield)	2550	370.2

Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	Shear strength Retention 72 hr boil (%)
SE2348 roving 2000 tex (250 Yield)	65.7	9526	96

PACKAGING

Rovings are available in a single-end internal-pull package. Pallets are stretch wrapped for load stability. Each doff is wrapped for protection and to aid strand runout and transfer. Pallets are available in bulk or Creel-Pak[®] pallet packaging format, depending on region. More information is available from Owens Corning Customer Service and Sales.

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.



OWENS CORNING
COMPOSITE MATERIALS, LLC
 ONE OWENS CORNING PARKWAY
 TOLEDO, OHIO 43659
 1.800.GET.PINK[®]
 www.owenscorning.com
 www.composites.owenscorning.com
 Contact:
 SingleEndRovings.ocamericas@owenscorning.com

EUROPEAN OWENS CORNING
FIBERGLAS, SPRL.
 166, CHAUSSÉE DE LA HULPE
 B-1170 BRUSSELS
 BELGIUM
 +32 2 674 8211
 Contact:
 SingleEndRovings.ocmea@owenscorning.com

OWENS CORNING COMPOSITES 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
 Contact:
 SingleEndRovings.ocap@owenscorning.com

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