



# SE 2348

## 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 OCV™ Reinforcements, in conjunction with statistical process control in manufacturing facilities certified to ISO 9001.



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### PRODUCT APPLICATION

SE 2348 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 is also used in aerospace, military transportation and electrical applications.



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### FEATURES AND PRODUCT BENEFITS

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

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### PRODUCT AVAILABILITY

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

### MECHANICAL PROPERTIES

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

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
SE2348 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 2000 tex (250 Yield)	65.7	9526	96

### PACKAGING

Rovings are available in a single-end internal-pull package. Each pallet weighs approximately 800 kg (3 tiers) to 1100 kg (4 tier). 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 up to 20 kg (44 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.

The 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.



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