



INNOVATIONS FOR LIVING™

366 Roving

Single End Roving for Pultrusion and filament Winding Processes

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

366 roving is specifically designed for use in pultrusion and filament winding applications in polyester, vinylester and epoxy resin systems.

366 roving has also been successfully used in acrylic resin and polyurethane resin systems. 366 roving can be used in a variety of processes to manufacture pipes, tanks, ladder rails, pultruded structural shapes and grating systems.

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>



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FEATURES AND PRODUCT BENEFITS

- Excellent Processing
 - 366 roving has no catenary, which means it will run out smoothly throughout the package under a variety of conditions and speeds.
 - 366 roving has low fuzz properties that will result in smoother parts, less cleanup and improved machine efficiencies.
 - The Tack-Pak® packaging allows virtually 100 percent transfer efficiency.
- Multi -Resin Compatible
 - The silane-based sizing of 366 roving is designed for excellent adhesion with polyester, vinyl ester and epoxy resin systems. Multi-compatibility allows a change in resin systems without the need for the time consuming effort of changing glass in the creel. In addition, 366 roving has had great success in acrylic and polyurethane resin systems.
- Excellent strand opening and spreading
 - 366 roving allows fast, uniform wet out of the strand in all resin systems. Fast wet out should allow for optimized part fabrication time, increased productivity and improved competitive position in the market.
- Available globally
 - 366 roving product line is available globally in a wide variety of yields and TEX. Global availability allows for one product qualification rather than designing or modifying product or processes by region. Global availability results in lower design and qualification costs.
- Superior corrosion resistance with Advantex® Glass compared to standard E-glass
 - 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

Yield	Tex
675, 450, 330, 250, 207, 113	735, 1100, 1500, 2000, 2400, 4400

MECHANICAL PROPERTIES

The following data was generated using production material 366 roving – 113 Yield (4400 tex)

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
DER 331 Epoxy resin	2360	340
Polyester F701 Resin	2300	335

Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	shear strength Retention 72 hr boil (%)
DER 331 Epoxy resin	61.6	8940	98%
Polyester F701 Resin	72.5	10520	86%

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 35 kg (77 lb.) and they can be packaged in bulk or Creel-Pak® 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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