



158B

Single End Roving for Filament Winding and Pultrusion

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

158B is specifically designed for use in filament winding and pultrusion applications with epoxy resin systems. It is also suitable to reinforce phenolic resins.

158B is the recommended product to be used in applications demanding excellent burst strength. It is approved for use in high pressure vessels.

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 with Tack-Pak® packaging |
| <ul style="list-style-type: none"> • Fast Wet Out | <ul style="list-style-type: none"> • Fast and Uniform wet-out allow to optimize part fabrication time, increasing productivity. |
| <ul style="list-style-type: none"> • Superior burst | <ul style="list-style-type: none"> • The 158B provides high burst pressure in pipe or vessels, which allows it to be recommended for use in pressure vessels applications |
| <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. |
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PRODUCT AVAILABILITY

Yield	Tex
225, 250, 450, 675	1100, 2100

MECHANICAL PROPERTIES

The following data was generated using Anhydride/ Epon 828 Epoxy resin

Strand Tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
158B 450 Yield (1100 tex)	2410	350
158B 250 Yield (2100 tex)	2450	355

Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	shear strength Retention 72 hr boil (%)
158B 450 Yield (1100 tex)	69.8	10120	95.2
158B 250 Yield (2100 tex)	68.3	9910	93

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 (44 lb.) and 28 kg (62 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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