



158B SINGLE-END ROVING

**High strength
low costs**

Type 30® 158B single-end roving is specifically designed for use in filament winding applications using epoxy resin where high strength is required.

- ✔ Produced with Advantex® corrosion resistant E-CR glass by Owens Corning.
- ✔ Suitable to reinforce phenolic resins.

FOR EFFICIENT FILAMENT WINDING

Product Benefits

-  **Excellent Processing**
 - Smooth run-out combined with low fuzz properties, resulting in smoother parts and less downtime for cleanup, enabling higher efficiencies and lower manufacturing costs.
-  **Fast Wet-Out**
 - Allows the processor to optimize part production speed, resulting in increased productivity and reduced costs.
-  **High Burst Strength**
 - Excellent glass/resin bonding, which provides high burst strength in pipe or vessels.
-  **Corrosion Resistant**
 - Excellent corrosion resistance with Advantex® Glass compared to standard E-glass, providing longer service life in applications facing corrosion.

Application

158B is designed for use in filament winding applications for the manufacturing of high-pressure pipe and pressure vessels where high strength and high burst pressure are required. Additional applications include CNG tanks, LPG tanks, water purification, and woven roving for ballistics (NA).



Technical Characteristics

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

MECHANICAL PROPERTIES	STRAND TENSILES: ASTM D2343		INTER-LAMINAR SHEAR STRENGTH ASTM D 2344		
	STRENGTH (MPA)	STRENGTH (KSI)	DRY SHEAR STRENGTH (MPA)	DRY SHEAR STRENGTH (KSI)	SHEAR STRENGTH RETENTION 72 HR BOIL (%)
158B 450 Yield (1100 Tex)	2410	350	69.8	10.12	95.2
158B 250 Yield (2000 Tex)	2450	355	68.3	9.91	93

Availability & Packaging

Not all Tex available in all regions.

MANUFACTURING REGION	TEX
Americas	735, 1100, 2000
Asia Pacific	735, 1100, 1200, 2000, 2400

Rovings are available in a single-end internal-pull package. All individual packages are wrapped with Tack-Pak® packaging to aid package run-out 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.

Labeling

Each individual package is labeled with information including product name, Tex/yield, producing plant, and production date.

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 ensure optimum performance.

**MAKE
MORE
POSSIBLE™**

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