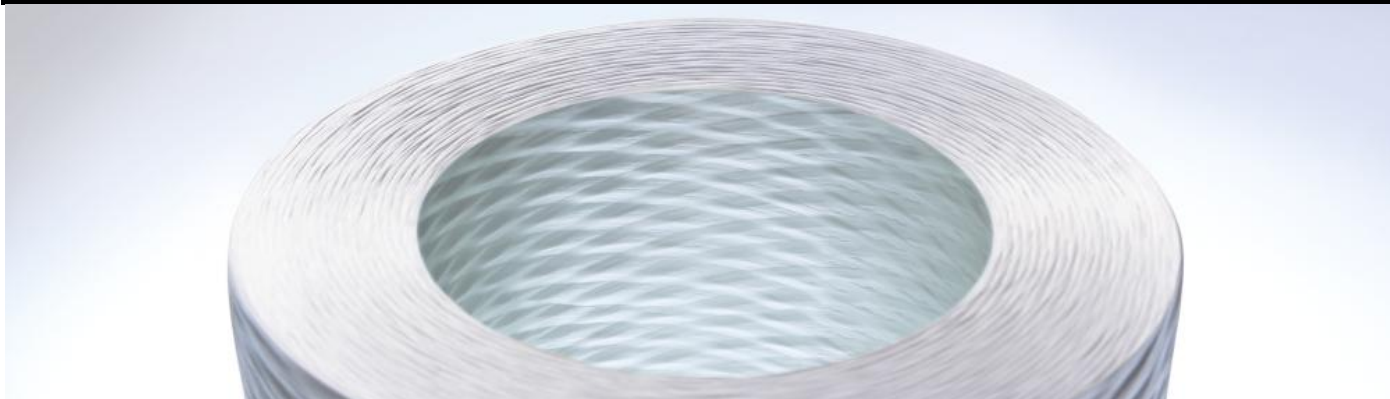


158B TYPE 30® SINGLE-END ROVING

FOR FILAMENT WINDING



DESCRIPTION

- **158B** is specifically designed for use in filament winding applications using epoxy resin, where high strength is required. 158B is also suitable to reinforce phenolic resins
- **158B** is manufactured using the Type 30® Roving state-of-the-art technology of Owens Corning Composite Material, in conjunction with statistical process control in manufacturing facilities certified to ISO 9001
- **158B** is produced with Owens Corning Composite Material patented Advantex® glass corrosion resistant E-glass providing superior strength and part life compared to STD E glasses

BENEFITS

- **Excellent processing:** 158B Roving has low fuzz properties resulting in smooth parts and less downtime for clean up, resulting in high efficiencies and low manufacturing costs. Owens Corning Composite Material patented Tack-Pak® packaging provides virtually 100% transfer efficiency, which minimized downtime and cost.
- **Outstanding burst strength:** 158B provides high burst strength in pipe and vessels, resulting in high strength parts for demanding applications. 158B provides excellent glass/resin bonding providing high strength and high strength retention in demanding applications.
- **Excellent strand wet out:** 158B Roving has fast wet-out, which allows the processor to optimized part production speed, resulting in increased productivity, reducing manufacturing costs.
- **Outstanding corrosion resistance with Advantex® Glass compared to standard E-glass:** Advantex® Glass means long part life and great service life strength in applications facing corrosion. For additional information on Advantex® glass use the link below: <http://composites.owenscorning.com/aboutAdvantex.aspx>



APPLICATIONS

Filament winding applications in epoxy resin systems

Also been successfully used in phenolic resin systems

High pressure pipe and pressure vessels, where high strength and high burst pressure are required



158B TYPE 30® SINGLE-END ROVING

FOR FILAMENT WINDING

AVAILABILITY – not all Tex available in all regions

| Yield | Tex |
|-----------------------------------|--|
| 675 – 450 – 413 – 250 – 225 – 207 | 735 – 1100 – 1200 – 2000 – 2200 – 2400 |

TECHNICAL CHARACTERISTICS (Single-End Roving)

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

| Mechanical properties | Strand Tensile: ASTM D 2343 | | Interlaminar Shear Strength NOL ring: ASTM D 2344 | | |
|---------------------------|-----------------------------|----------------|---|--------------------------|---|
| | Strenght (MPa) | Strength (Ksi) | Dry shear strength (MPa) | Dry shear strength (psi) | Shear strength Retention 72 hr boil (%) |
| 158B 450 Yield (1100 Tex) | 2410 | 350 | 69.8 | 10120 | 95.2 |
| 158B 250 Yield (2000 Tex) | 2450 | 355 | 68.3 | 9910 | 93 |

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.

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