



PULSTRAND® PRO41 ROVING MAKE MORE WITH LESS

PulStrand® PRO41 Roving is specifically designed to maximize production in pultrusion processes by reducing the number of glass doffs needed. High tex reduces floor space, improves downtime and labor, and provides the opportunity to make larger parts without compromising mechanical properties or processing.

- PulStrand® PRO41 is a single-end roving, designed for pultrusion, offering processing and laminate performance with multi-resin compatibility.
- Consistent glass/resin bonding in polyester, vinyl ester, polyurethane, acrylic, and epoxy resins, provides the processor maximum flexibility with one input glass. This reduces costly downtime and labor during job changes.
- Produced with patented Advantex® corrosion resistant E-CR glass by Owens Corning.

MEETS THE HIGHEST STANDARD FOR PS4100

Product Benefits

Reduced Cost

- 50-75% less floor space required to run your product line.
- Product change overs require fewer doffs and less labor.
- Space savings and large tex enables you to make larger parts with the same set-up.

Efficient Processing

- Smooth run-out combined with low fuzz properties results in smoother parts and less downtime for clean-up, enabling higher efficiencies and lower manufacturing costs.

Impressive Mechanical Properties

- Desirable shear and flexural properties in major resin systems, provide maximum part strength and long part service life.

Applications

- Pultrusion applications in polyester, vinyl ester, polyurethane, and epoxy resin systems, using conventional dip bath or resin injection technology.
- Pultruded structural applications: ladder rails, grating systems, rebar and poles, etc.



Technical Characteristics
(Single-End Roving)

The following data was generated using PulStrand® PRO41–28 Yield (17600 Tex) on pultruded part cross-section of samples: 1 inch by 0.125 inch (25.4 mm by 3.175 mm).

| MECHANICAL PROPERTIES | FLEXURAL STRENGTH ASTM D790 | | INTER-LAMINAR SHEAR STRENGTH ASTM D 2344 | | FIBER WEIGHT FRACTION (%) |
|-----------------------|-----------------------------|-------------------------|--|---------------------------|---------------------------|
| | Flexural Strength (ksi) | Flexural Strength (MPa) | Short Beam Strength (ksi) | Short Beam Strength (MPa) | |
| Polyester Resin | 156 | 1075 | 6.5 | 45 | 80.7 |
| Polyurethane Resin | 208 | 1431 | 12.2 | 84 | 82.1 |

Availability

| TEX | YIELD | REGION AVAILABLE |
|-------|-------|----------------------|
| 13800 | 36 | China |
| 17600 | 28 | N. America |
| 19200 | 26 | Europe, China, India |

Packaging
(Standard Reference)

Rovings are available in a single-end internal-pull package. Each pallet weighs about 1 ton and is packaged in bulk. Pallets are stretch-wrapped for load stability and for protection during transport. All individual packages are wrapped with Tack-Pak™ packaging to aid package run-out and transfer. More information is available in the Customer Acceptance Standards.

Labeling

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

Storage

Glass fiber products should be stored in a cool, dry area. The glass fiber products must remain in their original packaging material until use; 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 weather. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water.

When stored properly, the product has no known shelf life issues, but retesting is advised after three years from the initial production date to insure optimum performance.



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