



R25H

RELIABLE MECHANICAL PROPERTIES

R25H single-end Type 30™ roving is specifically designed to maximize strand wet-out, allowing for high speeds in UV cured pultrusion processes and weaving processes, while also allowing for superior mechanical properties for filament winding processes.

- Ideal for UV-cured pultrusion of central stiffness members for fiber-optic cabling.
- Enhances pipe lifetime in chemical and sewage pipe markets, is safe for use in pipes used for water distribution, and is suitable for weaving.
- Produced with patented Advantex® corrosion resistant E-CR glass by Owens Corning.
- Compatible with polyester, vinyl ester, and epoxy resin systems.

FOR PULTRUSION, FILAMENT WINDING, AND WEAVING

Product Benefits

Excellent Processing

- Features easy unwinding and excellent package run-out for uniform dispersion with low fuzz and static, which means less cleanup and better machine efficiencies.
- Fast wet-out and high-resin pickup, equating to increased quality in the parts' visual aspect after molding.

Multi-resin Compatibility

- Designed for excellent adhesion with polyester, vinyl ester, and epoxy resin systems. Multiple-compatibilities allow changing in resin systems without the need for the time-consuming effort of changing glass in the creel.
- Works well with UV-cured resins, allowing for use in high-speed UV processes and translucent applications.

Enhanced Service Life & Durability

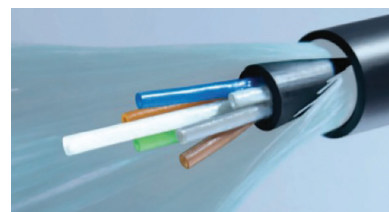
- Compared to standard E-glass, Advantex® glass helps with enhanced service life in applications facing corrosion.

Food and Potable Water Compliant

- Meets regulations as suitable for water distribution in both civil and industrial applications.

Application

R25H is a versatile solution for central stiffness members for fiber-optic cabling, cylinders and pipes, and woven glass reinforcements. Industries include telecommunications, chemical and sewage pipe, water distribution, and wind energy.



Technical
Characteristics

The following data was generated using production material R25H — 2400 Tex (207 yield):

| STRAND TENSILE: ASTM D2343 | STRENGTH (MPA) | STRENGTH (KSI) | |
|---|-----------------------------|-----------------------------|---|
| Anhydride/DER 331 Epoxy Resin | 2710 | 390 | |
| Polyester F701 Resin | 2860 | 415 | |
| INTERLAMINAR SHEAR STRENGTH NOL RING: ASTM D 2344 | DRY SHEAR STRENGTH (MPA) | DRY SHEAR STRENGTH (PSI) | SHEAR STRENGTH RETENTION BOIL 72 HOURS (%) |
| Anhydride/DER 331 Epoxy Resin | 63 | 9140 | 94 |
| Polyester F701 Resin | 62.8 | 9110 | 83 |

Availability & Packaging

R25H is available in the Americas, Europe, and Asia Pacific. Additional weights and widths may be available upon request by contacting your Owens Corning representative.

Available Tex include 600, 735, 1200, 4400, and 4800

Rovings are available in a single-end internal-pull package. Each pallet weighs 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 32 kg (71 lbs.) and 20 kg (45 lbs.), depending on shipping location and are packaged in bulk. 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

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.



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