Technical data

Glass roving ADVANTEX R25 HX14 2400 tex

Description
Single-end roving for filament winding and pultrusion

Single-end rovings are produced by pulling individual fibres 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.

Application
ADVANTEX R25 HX14 roving is specifically designed for use in filament winding and pultrusion applications in polyester, vinyl ester, and epoxy resin systems. ADVANTEX R25 HX14 roving maximizes strand wet out, allowing superior mechanical properties for pipes made with a continuous process. Combined with corrosion resistant Advantex® Glass, ADVANTEX R25 HX14 roving enhances pipe life-time in chemical and sewage pipe markets. It is also safe for use in pipes used for water distribution. ADVANTEX R25 HX14 roving is also suitable for pultrusion of central stiffness members for fibre optic cabling.

Features and product benefits

- **Excellent processing**
  1. Low fuzz properties which equate to low clean-up and high machines efficiencies.
  2. Excellent package run out and transfer with Tack-Pak® packaging
  3. Optimum Package/Pallet weight.
- **Multi-Resin compatible**
  The R25H roving sizing is designed for excellent adhesion with polyester, vinyl ester and epoxy resin systems. Multi-compatibility allows a change in resin systems without the need for the time consuming effort of changing glass in the creel.
- **Excellent strand opening and spreading**
  Fast wet-out and high resin pick-up equating to increased quality in the parts visual aspect after molding.
- **Excellent laminate strength and corrosion resistance**
  Provides superior pipe burst and, when used with Advantex® glass, superior lifetime to chemical corrosion.
- **Compliant with food and potable water regulation**
  Suitable for use for water distribution both civil and industrial.
- **Superior corrosion resistance with Advantex® Glass compared to standard E-glass**
  Advantex® Glass provides superior corrosion resistance vs. standard E-glass, leading to longer part life and greater service life strength in applications facing corrosion.

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.

Spool 24 kg, order no. 205112-6

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Mechanical properties

The following data was generated using production material ADVANTEX R25 HX14 roving – 2400 Tex (207 Yield)

Strand tensiles : ASTM D 2343	Strength (MPa)	Strength (Ksi)
Anhydride/ DER 331 Epoxy resin	2710	390
Polyester E701 Resin	2860	415

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Interlaminar Shear Strength NOL ring : ASTM D 2344	Dry shear strength (MPa)	Dry shear strength (psi)	Shear strength retention 72 h boil (%)
Anhydride/ DER 331 Epoxy resin	63	9140	94
Polyester E701 Resin	62.8	9110	83

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