



Direct Roving Fiber Glass
HYBON[®]

2732



Product Description

HYBON 2732 roving from NEG is a continuous filament, single-end strand roving designed to reinforce polyester, polyurethane, vinyl ester and epoxy resin systems in pultrusion applications. Typical end-use applications include ladder rails, sucker rods, structural beams, angles, cable trays, and pultruded pipe. It offers excellent processing free of catenary with very low fuzz and processing tension. **HYBON 2732** roving consists of multiple filaments of glass fiber coated with a multi-compatible sizing formed into a single, splice-free strand. Each package is wrapped to protect the fiber glass roving from dirt and moisture.

User Benefits

- Excellent composite mechanical properties.
- Multi-compatible with polyester, vinyl ester, polyurethane, and epoxy resins.
- Complete and consistent wet out and saturation.
- Superior abrasion resistance. Minimal to no fuzz generation.
- Extremely low processing / payout tension.
- Product maintains robust integrity in resin or dry processing environment.
- Catenary free product.
- Supported by NEG's extensive technical resources.
- Manufacturing facilities operate quality management system that comply with ISO 9001:2015 requirements.

Packaging

- 48 packages/pallet
- 20 kg (44 lbs.)/package

GLASS FOR FUTURE



Nippon Electric Glass

Product Information

Type of Fiber	E-Glass (ASTM D 578-05 Section 4.2.2)					
Type of Sizing	Silane					
Roving Tex, nominal (g/km)	550	735	1984	2400	4400	8856
Roving Yield, nominal (yd/lb)	900	675	250	206	113	56
Average Fiber Diameter (µm)	14	17	17	17	24	34
			24			
Other Tex/Yield options are available upon request. Contact your NEG Account Manager.						

Storage

These products should be stored in a dry area with ambient temperature and relative humidity, optimally from 20°C to 25°C and between 50% and 70%, respectively. Protect product from all sources of water at all times. A First-In-First-Out (FIFO) stock control system is recommended to minimize the influence of storage conditions. Prior to use, products should be conditioned in the work area for a minimum of 24 hours. If contents of a package unit are partially used, the unit should be closed until the next use. With proper storage, there are no known limitations on the shelf life of the product. To insure optimal performance, retesting is recommended for products stored more than two years from the initial production date.

Caution

To avoid the possibility of potential injury, maintain column stability by limiting pallet stacking to two (2) high as noted on individual shipping containers.

NOTE: This data is offered for informational purposes only in the selection of a composite reinforcement. The information contained in this bulletin is based on actual laboratory data. We believe that this information is reliable, but do not guarantee its applicability to the process of the user or assume any liability arising out of its use or performance. The user, by accepting the products described, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial laminates when using this or any other reinforcement. *Because of numerous factors affecting the results, we make no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose. Statements in this document shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code, or insurance regulation.*

More Information

<http://www.neg.co.jp/inquiry/>

<http://www.neg.co.jp/en/inquiry/>

Mechanical Properties

Impregnated Strand Tensile Testing (ASTM D2343)

Tensile Strength (MPa/ksi) = 2186/317
Glass Content by Weight (%) = 59.5

Interlaminar Shear Strength (ASTM D2344)

Anhydride Cured Epoxy

Horizontal Shear Dry (MPa/ksi) = 66.2/9.6
Horizontal Shear Wet* (MPa/ksi) = 62.7/9.1
Strength Retention (%) = 95

Unsaturated Polyester

Horizontal Shear Dry (MPa/ksi) = 50.3/7.3
Horizontal Shear Wet* (MPa/ksi) = 47.6/6.9
Strength Retention (%) = 95

*6 Hour water boil conditioning

Tensile Properties of Yarn (ASTM D2256)

Hybon 2732 56 (N/lbs) = 2927/658
Hybon 2732 113 (N/lbs) = 1721/387
Hybon 2732 250 (N/lbs) = 881/198

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