

# TUFROV® 4520

Long Fiber Thermoplastic Fiber Glass



## Product Description

**TUFROV 4520** roving from NEG is a specifically designed reinforcement for long fiber polypropylene (PP) processes such as granulated long fiber thermoplastic (GLFT), continuous fiber reinforced tapes and direct long fiber thermoplastic (DLFT). *TUFROV 4520* rovings are formulated to provide exceptional processing characteristics while still delivering reinforcements with outstanding physical properties. Each pallet is stretch-wrapped to protect the glass roving from dirt and moisture. *TUFROV 4520* rovings are available in standard bulk pack and stack pack configurations are available upon request. Various tex yields are available upon request.

## User Benefits

- Excellent spread ability of the roving filaments in thermoplastic pultrusion and LFT processes.
- Sizing on the fiber surface has been tailored to provide optimal balance of dry strength, fiber resin wetting and minimal sizing rub-off on process contact points.
- *TUFROV 4520* provides exceptional resistance to fuzz generation under high stress / tension conditions as well as high temperature / high humidity environments.
- Available with inside payout. Some tex yields are available (upon request) for outside payout.
- Roving has superior impact and tensile strength properties.
- Outstanding processing in all long fiber thermoplastic (LFT) processes for molding PP products.
- Excellent wet out with various types of PP resin systems.
- Multiple production facilities.
- Supported by NEG's extensive technical resources.
- Manufacturing facilities operate quality management systems that comply with ISO 9001:2015 requirements.

## Packaging

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

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## Product Information

Type of Fiber	E-Glass (ASTM D 578-05 Section 4.2.2)					
Type of Sizing	Silane					
Roving Tex, nominal (g/km)	600	735	1100	1200	2200	2400
Roving Yield, nominal (yd/lb)	827	675	450	413	225	206
Average Fiber Diameter (μm)	15	17	16	17	16	17
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.

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## More Information

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

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

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