

HP SE4121 SINGLE-END ROVING

Higher mechanical performance



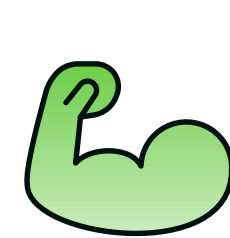
Type 30® HP SE4121 single-end roving represents a compelling higher performance solution for Polypropylene Long Fiber Thermoplastics (LFT-G and D-LFT) applications where excellent mechanical properties and hydrolysis resistance are required.

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Produced with patented “High Performance” glass, the product provides superior mechanical properties with the excellent corrosion resistance expected from our Advantex® formulations.
- ✔

Compatible with Polyolefins: PP, PE, and HDPE resin systems.

Product Benefits



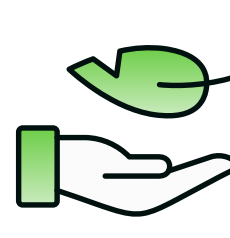
Superior Glass Dispersion/Increased Part Strength

- Outstanding compatibility with Polyolefins, enabling better wet-out, uniform glass dispersion, and potentially higher glass loading.
- Optimized adhesion to the polymer matrix, offering excellent mechanical properties to meet stringent end-use requirement.



Enhanced Service Life

- Like Advantex glass, HP glass helps fight corrosion, enhancing service life compared to standard E-Glass.



Lightweighting

- 9% weight reduction by reducing LFTP part thickness – ideal for automotive lightweighting.
- 2.5% potential weight reduction in LFTP compound.

For Compounders

2.5%

potential weight reduction in compound.



For OEMs

9%

weight reduction by reducing part thickness.



Application

The HP SE4121 product is designed for use in all LFT-G (compounded pellets) and D-LFT (direct compounding and molding) processes. It is used for the manufacturing of structural and semi-structural automotive applications, including front-end modules, seat carriers, and door modules, as well as a variety of consumer goods, appliances, and power tools.

Mechanical Properties

Data generated using production material SE 4121 2400 tex 17µm (207 yield).

TENSILE STRENGTH	TENSILE MODULUS	FLEXURAL STRENGTH	FLEXURAL MODULUS	IMPACT — NOTCHED CHARPY I	IMPACT — UNNOTCHED CHARPY
+17%	+12%	+12%	+9%	+23%	+16%

Note: Data generated using production HP SE4121 and standard SE4121 for comparison. Both products were 2400 tex with 17 µm fibers, and were tested at 30% glass loading in a standard PP resin formulation.

This information and data contained herein is offered solely as a guide in the selection of product. Published product values are typical performance estimates and may vary by manufacturing location, production run, testing method, and application. Products are tested as part of our quality processes and manufactured to applicable specifications. Actual performance may vary. We reserve the right to update published values, specifications, and product characteristics without notice. All values are provided for informational purposes only and do not guarantee performance. Customers are responsible for determining the suitability of the product for their intended use and should conduct appropriate testing and evaluation. Except as otherwise provided in applicable sales terms & conditions, no warranties of any kind, express or implied, including those of merchantability and fitness for a particular purpose.

Availability

TEX	YIELD	FILAMENT DIAMETER (µm)	LOSS ON IGNITION (%)	MOISTURE (% MAX)
2400	207	17	0.55	0.05

Packaging

Rovings are available in 20 kg single-end, internal pull. Pallet dimensions 16x4 rovings. Pallets are stretch-wrapped for load stability. Pallets are available in bulk pallet packaging format, and are manufactured in India for export globally.

Labeling

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

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

ISO Standards

HP SE4121 single-end roving is manufactured in conformity with the following standards: ISO 2797, NF B38151 and DIN 61855.

MAKE
MORE
POSSIBLE™

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