

SE4121 SINGLE-END ROVING

Robust performance in harsh processing environments

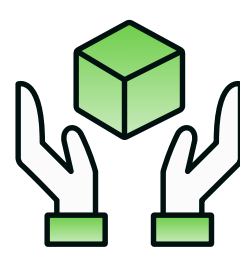


Type 30® SE4121 single-end roving represents a compelling solution for Polypropylene Long Fiber Thermoplastics (LFT-G and D-LFT) applications where excellent mechanical properties and hydrolysis resistance are required.

✔ Produced with patented Advantex® corrosion resistant E-CR glass.

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

Product Benefits



Compounding Line Efficiency

- No catenary and high resistance to fuzz generation equate to low cleanup & high machine efficiencies.



Mechanical Performance

- Optimal adhesion to the Polyolefin resin matrix provides excellent dry-as-molded mechanical properties and hydrolysis resistance.



Enhanced Service Life

- Advantex® glass helps fight corrosion, and extends service life compared to standard E-glass.



Multi-Process Compatible

- Suitable for all D-LFT and LFT-G processes and choppable to desired length.



Excellent Impregnation & Dispersion

- Both D-LFT and LFT-G processes show excellent dispersion within the final parts.

Application

The 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.

Availability

TEX	YIELD	FILAMENT DIAMETER (µm)	LOSS ON IGNITION (%)	MOISTURE (% MAX)	MANUFACTURING REGION
1100	450	16	0.55%	0.05%	North America
1200	225	16	0.55%	0.05%	North America
2200	207	17	0.55%	0.05%	North America, Asia Pacific
2400	207	17	0.55%	0.05%	North America
2800	177	18	0.55%	0.05%	Asia Pacific

Mechanical Properties

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

PELLET (12 MM)	TENSILE STRENGTH (MPa)	FLEXURAL STRENGTH (MPa)
PP resin + Glass content 50%	167.7	261.3

Test results will vary by Process and 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.

Packaging

Rovings are available in a single-end internal-pull package. Each pallet weighs about 1 ton and can be packaged in bulk or Creel-Pak® packaging format. Pallets are stretch wrapped for load stability and for protection during transport. Full doffs are available in weights between 15 kg (33 lb) and 20 kg (44 lb), and can be packaged in bulk or Creel-Pak® format. All individual packages are wrapped with Tack-Pak® packaging to aid package run-out and transfer. 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

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.

MAKE
MORE
POSSIBLE™

US & Canada
2790 Columbus Road
Building 70
Granville, Ohio, USA 43023
+1 866 2GET GLAS

South Korea
156 Gongdan 3-Gil,
39537, Gimcheon-Si
Gyeongsangbuk-Do
+82 54 429 5714

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